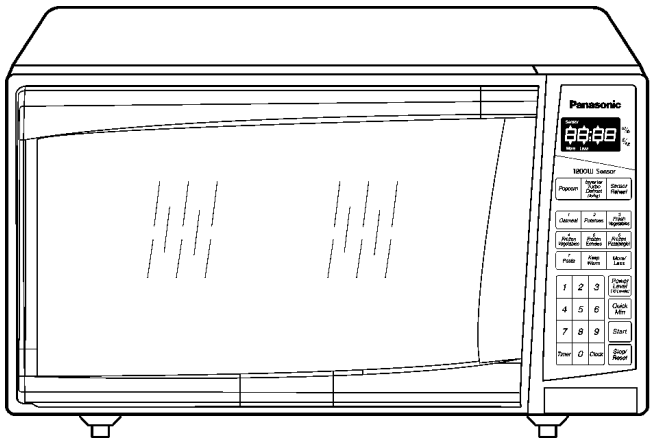
ORDER NO.SIMMC 0401001A1
E1

Service Manual

Microwave Oven

Simplified



NN-T694SF NN-T664SF
NN-T654SF NN-T644SF
NN-H674WF
NN-H664 NN-S654
NN-H644 NN-S644
NN-H634 NN-S634
NN-H624 NN-S624
NN-H614 NN-S614
NN-H604 NN-S604
NN-H504 NN-S504

APH(USA)

CPH(CANADA)

Please file and use this specified manual together with the service manual for Model NN-S560BF/WF(ORDER NO. SIMMC0001002C3).

Specifications:

	Specifications for APH:							
Specifications: / Model:	T694SF / T664SF T654SF / T644SF	H664MF/BF/WF S654BF/WF	H644BF/WF S644BF/WF H634BF/WF	S634BF/WF	H624BF/WF S624BF/WF	H614BF/WF S614BF/WF	H604BF/WF S604BF/WF	H504BF/WF S504BF/WF
Power Source:	120V AC Single Phase, 60Hz							
Power Requirement:	1460W	1460W	1460W	1460W	1460W	1460W	1460W	1460W
Output(IEC705-88):	1300W	1300W	1300W	1250W	1250W	1250W	1200W	1200W
	Specifications for CPH:							
Specifications: / Model:	T694SF	H674WF	H664MF/BF/WF	S634WF	S624WF	S614WF	S604WF	S504MF/WF
Power Source:	120V AC Single Phase, 60Hz							
Power Requirement:	1460W	1460W	1460W	1460W	1460W	1460W	1460W	1460W
Output(IEC705-88):	1200W	1200W	1200W	1200W	1200W	1200W	1200W	1100W
Microwave Frequency:	*2450MHz							
Timer:	*99 min. 99 sec.							
Outside Dimensions:	*20"(518mm)(D) x 16"(407mm)(W) x 11"(301mm)(H)							
Oven Cavity Dimensions:	*14 "(375mm)(D) x 15"(386mm)(W) x 8 "(225mm)(H)							
Weight:	12.0 kg							
PbF	This product with PbF							
Output power: IEC705-88 Test Procedure								
Specifications subject to change without notice.								

Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

WARNING

1. This product should be serviced only by trained, qualified personnel.
2. Though this product has been manufactured in compliance with:
   "Federal Performance Standard 21 CFR Subchapter J"(D.H.H.S): U.S.A. models
   or "Radiation Emitting Devices Act"(Health and Welfare Canada): Canadian models
   it is very important all repairs should be made in accordance with procedures described in this manual to avoid being exposed to excessive microwave radiation.
3. Check for radiation leakage before and after every servicing according to the "procedure for measuring radiation leakage."
4. If the unit cannot be repaired on site, advise the customer not to use until unit is repaired.
5. Any serviceman who learns of any accident pertaining to microwave radiation leakage including the oven operating with open door should immediately notify the appropriate address listed below and Center for Devices and Radiological Health, DHHS.

IN U.S.A. (PASC)	Panasonic Services Company 50 Meadowland Parkway, Secaucus, New Jersey 07094 Attention: Technical Service Division. (201)348-7000	IN PUERTO RICO (PSC)	PSC San Gabriel Industrial Park 65th Infantry Ave. Km.9.5 Carolina, Puerto Rico 00985 (787)750-4300
		IN CANADA (PCI)	Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario, L4W2T3 (905)624-5010

6. There are special components used in the microwave oven which are important for safety. These parts are marked with a ⚠ on the replacement parts list. It is essential that these critical parts should be replaced only with the manufacture's specified parts to prevent microwave leakage, shock, fire, or other hazards. Do not modify the orginal design.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

(A) Do not operate or allow the oven to be operated with the door open.
(B) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary:
  (1) Interlock operation
  (2) Proper door closing
  (3) Seal and sealing surfaces (arcing, wear, and other damage)
  (4) Damage to or loosening of hinges and latches.
  (5) Evidence of dropping or abuse
(C) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, waveguide or transmission line, and cavity for proper alignment, integrity and connections.
(D) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
(E) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

CAUTION

About lead free solder (PbF)

Distinction of PbF PCB: PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:
- Pb free solder has a higher melting point than standard solder; Typically the melting point is 30 - 40˚C higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 370 ± 10˚C.
- Pb free solder will tend to splash when heated too high (about 600˚C).

DANGER OF HIGH VOLTAGE AND HIGH TEMPERATURE (HOT/LIVE) OF THE INVERTER POWER SUPPLY (U)

INVERTER WARNING

This Inverter board looks like a regular PCB. However, this PCB drives the magnetron tube with extremely high voltage and high current. **NEW H.V.**

IT HAS:

1. **Very high voltage and high current circuits.**
   It functions the same as the high voltage transformer and high voltage capacitor in ordinary microwave ovens.
2. **Aluminum heat sink that is energized with very high voltage and high heat energy.**
3. **Very high voltage which may remain in circuitry even when oven is off. High voltage charge may remain in the capacitors on the board.**

DO NOT:

* 1. **Do not touch circuitry because it has very hot (high voltage) circuitry. Even when replacing board, extreme care should be taken to avoid possible electric shock hazards. High voltage charge may remain in circuits.**

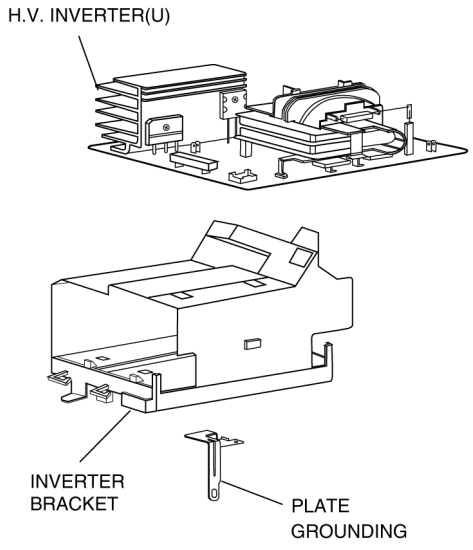
* 2. **Do not touch aluminum heat sink because it is energized with very high voltage and is also very hot in high heat energy.**

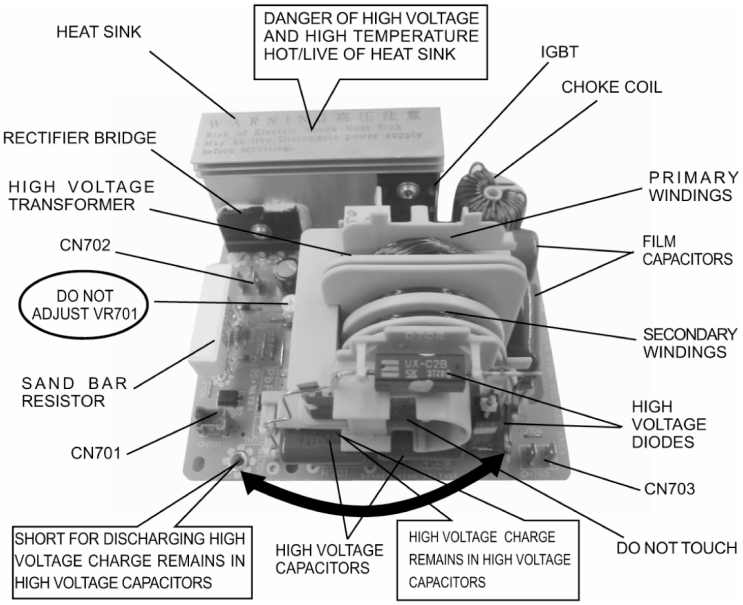
* 3. **Do not try to adjust or tamper with preset control on the Inverter board because it is very dangerous to adjust without proper test equipment.**

* 4. **Do not test oven while Inverter grounding plate or screws are loose. It is very dangerous to operate H.V. Inverter Circuit (U) with loose mounting screws or if improperly grounded.**

* 5. **For USA only:**
   Do not try to repair Inverter PCB because it is very dangerous to repair. Replace as a complete High Voltage Inverter Circuit unit and return fully re-packed in original shipping box and shipping materials.

INVERTER POWER SUPPLY





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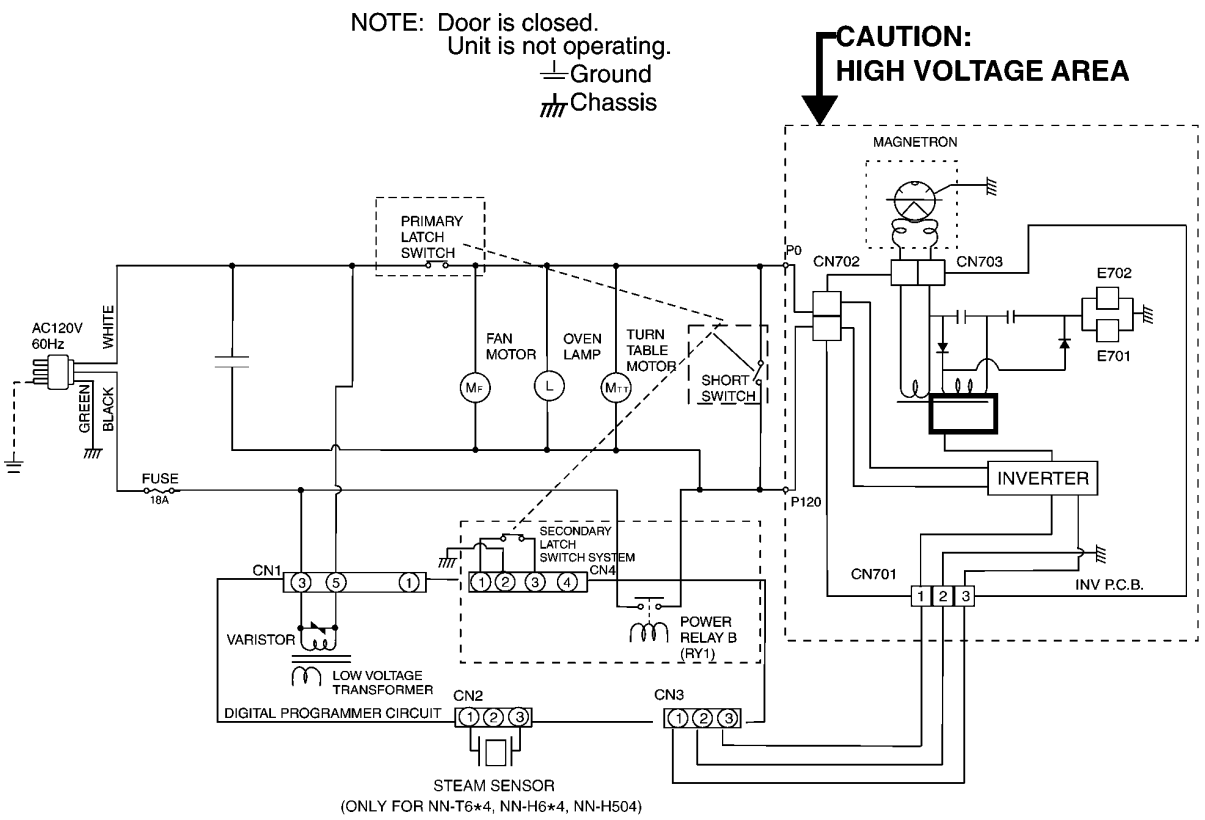
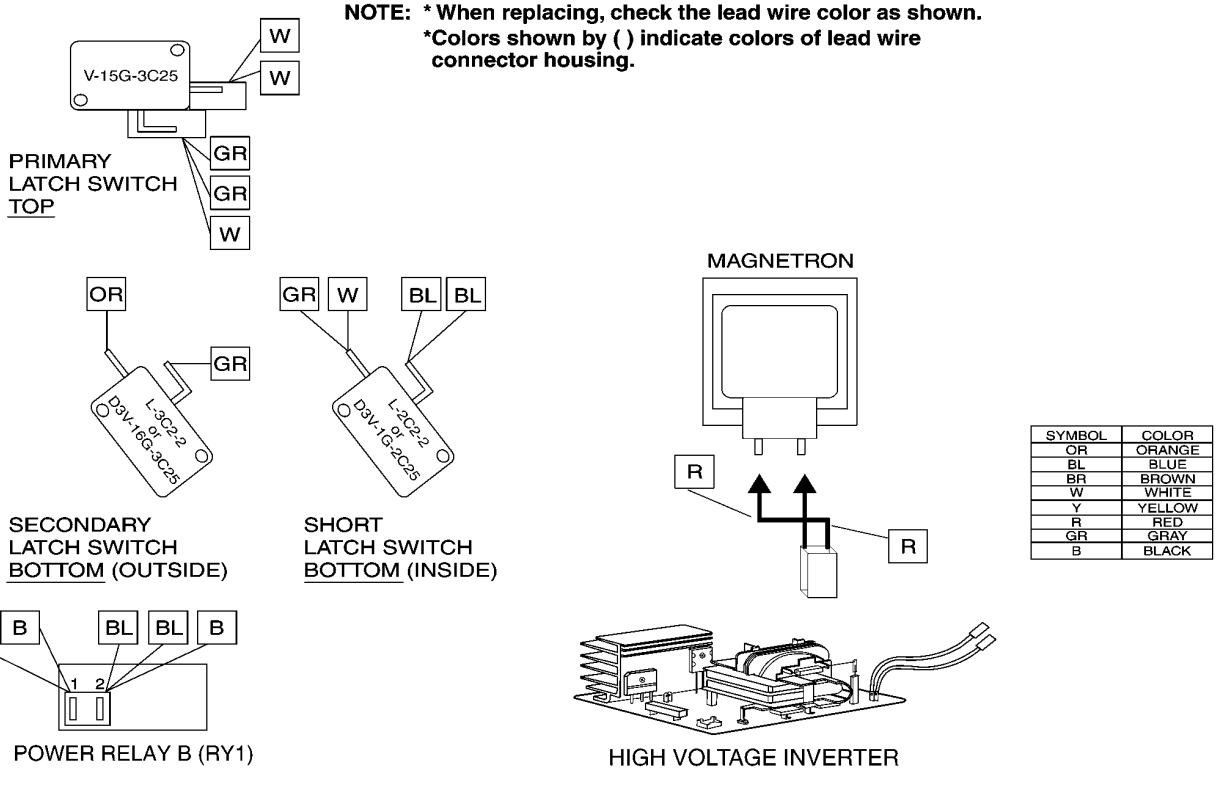
1 SCHEMATIC DIAGRAM

1.1. APH



WIRING DIAGRAM

NOTE: * When replacing, check the lead wire color as shown.
***Colors shown by ( ) indicate colors of lead wire connector housing.**

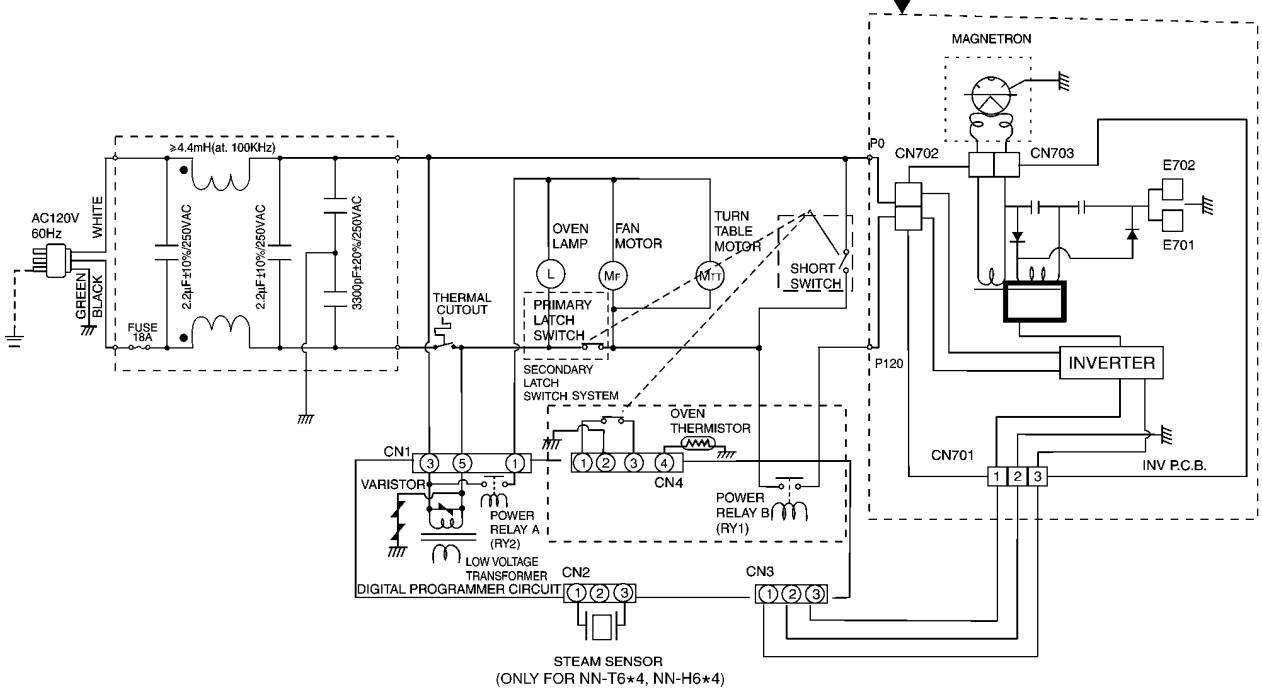


SYMBOL	COLOR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK

1.2. CPH

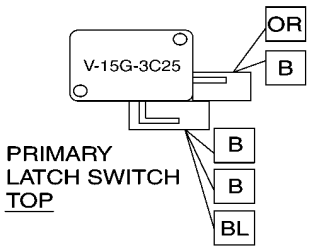
NOTE: Door is closed.
Unit is not operating.
⏚ Ground
⏚ Chassis

CAUTION:
HIGH VOLTAGE AREA

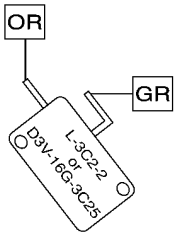


WIRING DIAGRAM

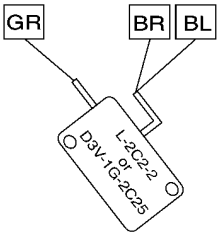
NOTE: * When replacing, check the lead wire color as shown.
***Colors shown by ( ) indicate colors of lead wire connector housing.**



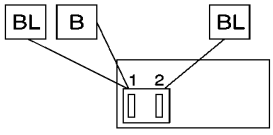
PRIMARY
LATCH SWITCH
TOP



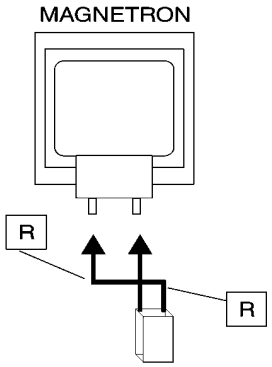
SECONDARY
LATCH SWITCH
BOTTOM (OUTSIDE)

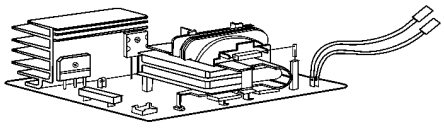


SHORT
LATCH SWITCH
BOTTOM (INSIDE)



POWER RELAY B (RY1)





HIGH VOLTAGE INVERTER

SYMBOL	COLOR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK

2 MEASUREMENTS AND ADJUSTMENTS

WARNING

* For continued protection against radiation hazard, replace only with identical replacement parts (For touch models Part No. J61424T00AP, Type No. V-15G-3C25 for Primary latch switch; Part No. J61414T00AP, Type No. D3V-16G-3C25 for Secondary latch switch and Part No. J61784T00AP, Type No. D3V-1G-2C25 for short switch.)
* When the 18 Amp. fuse is blown due to the operation of the short switch, you must replace power relay B (Part No. AEGG5G1A18, Type No. G5G-1A12VDC), Primary latch switch and the short switch. Then follow the installation procedures below.
* Interlock switch replacement In replacing faulty switches, be sure mounting tabs are not bent, broken or otherwise deficient in their ability to hold the switches.
* Refer to schematic diagram to ensure proper connection.

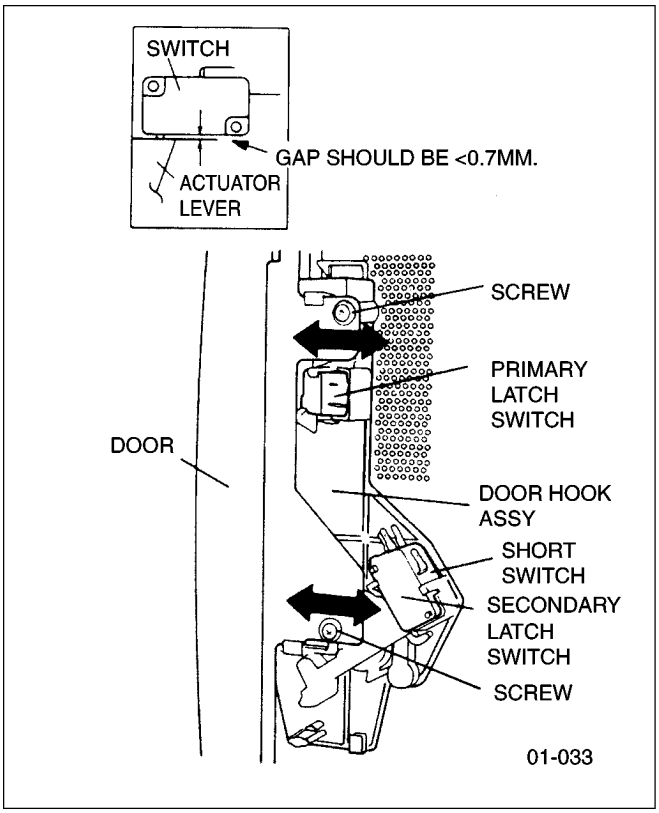
2.1. Adjustment of primary latch switch, secondary latch switch and short switch.

1. Mount the Primary latch switch, the Secondary latch switch and the Short switch to the door hook assembly as shown in ILL.

   NOTE:

   No specific individual adjustments during installation of the Primary latch switch, Secondary latch switch or Short switch to the door hook are required.

2. When mounting the door hook assembly to the oven assembly, adjust the door hook assembly by moving it in the direction of the arrows in the illustration so that the oven door will not have any play in it. Check for play in the door by pulling the door assembly. Make sure that the latch keys move smoothly after adjustment is completed. Completely tighten the screws holding the door hook assembly to the oven assembly.
3. Reconnect the short switch and check the continuity of the monitor circuit and all latch switches again by following the component test procedures.



2.2. Measurement of microwave output

The output power of the magnetron can be determined by performing IEC standard test procedures. However,due to the complexity of IEC test procedures, it is recommended to test the magnetron using the simple method outlined below.

Necessary Equipment:

*1 liter beaker *Glass thermometer
*Wrist watch or stopwatch

NOTE:

Check the line voltage under load.Low voltage will lower the magnetron output. Take the temperature readings and heating time as accurately as possible.

1. Fill the beaker with exactly one liter of tap water.Stir the water using the thermometer and record the water's temperature. (recorded as T1).
2. Place the beaker on the center of glass tray.
   Set the oven for High power and heat it for exactly one minute.
3. Stir the water again and read the temperature of the water. (recorded as T2).
4. The normal temperature rise at High power level for each model is as shown in table.

TABLE (1L-1min.test)

RATED OUTPUT	TEMPERATURE RISE
1100W(IEC705-88)	Min. 16.9°F(9.4°C)
1200W(IEC705-88)	Min. 18.5°F(10.3°C)
1300W(IEC705-88)	Min. 19.8°F(11.1°C)

3 PROCEDURE FOR MEASURING MICROWAVE ENERGY LEAKAGE

WARNING

Check for radiation leakage after every servicing. Should the leakage be more than 2 mW/cm^2 (1mW/cm^2 for Canada) inform PASC, PSC, or PCI immediately. After repairing or replacing any radiation safety device, keep a written record for future reference, as required by D.H.H.S. and Health and Welfare Canada regulation. This requirement must be strictly observed. In addition, the leakage reading must be recorded on the service repair ticket while in the customer's home.

NOTE:

The U.S. Government standard is 5 mW/cm^2 while in the customer's home. 2mW/cm^2 stated here is our own voluntary standard. (1mW/cm^2 for Canada)

3.1. Equipment

- Electromagnatic radiation monitor
- Glass thermometer 212°F or 100°C
- 600cc glass beaker

3.2. Procedure for measuring radiation leakage

Note before measuring.

- Do not exceed meter full scale deflection. Leakage monitor should initially be set to the highest scale.
- To prevent false readings the test probe should be held by the grip portion of the handle only and moved along the shaded area in Figure no faster than 1 inch/sec (2.5cm/sec).
- Leakage with the outer panel removed ..... less than 5mW/cm^2.
- Leakage for a fully assembled oven with door normally closed ..... less than 2mW/cm^2 (1mW/cm^2 for Canada).
- Leakage for a fully assembled oven [Before the latch switch (primary) is interrupted] while pulling the door ..... less than 2mW/cm^2.

1. Pour 275 ± 15cc (9ozs^s± 1/2oz) of 20°C ± 5°C (68° ± 9°F) water in a beaker which is graduated to 600cc, and place in the center of the oven.
2. Set the radiation monitor to 2450MHz and use it following the manufacturer´s recommended test procedure to assure correct results.
3. When measuring the leakage, always use the 2 inch (5cm) spacer supplied with the probe.
4. Tap the start pad or set the timer and with the magnetron oscillating, measure the leakage by holding the probe perpendicular to the surface being measured.

3.2.1. Measurement with the outer panel removed.

Whenever you replace the magnetron, measure for radiation leakage before the outer panel is installed and after all necessary components are replaced or adjusted. Special care should be taken in measuring around the magnetron.

WARNING

Avoid contacting any high voltage parts.

3.2.2. Measurements with a fully assembled oven.

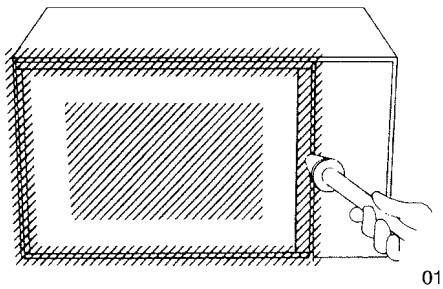
After all components, including outer panel are fully assembled, measure for radiation leakage around the door periphery, the door viewing window, the exhaust opening and air inlet openings.

3.3. Record keeping and notification after measurement

- After any adjustment or repair to a microwave oven, a leakage reading must be taken. Record this leakage reading on the repair ticket even if it is zero.

  A copy of this repair ticket and the microwave leakage reading should be kept by repair facility.
- Should the radiation leakage be more than 2 mW/cm^2 (1mW/cm for Canada) after determining that all parts are in good condition, functioning properly, and genuine replacement parts as listed in this manual have been used, immediately notify PASC, PSC or PCI.

3.4. At least once a year, have the radiation monitor checked for calibration by its manufacturer.



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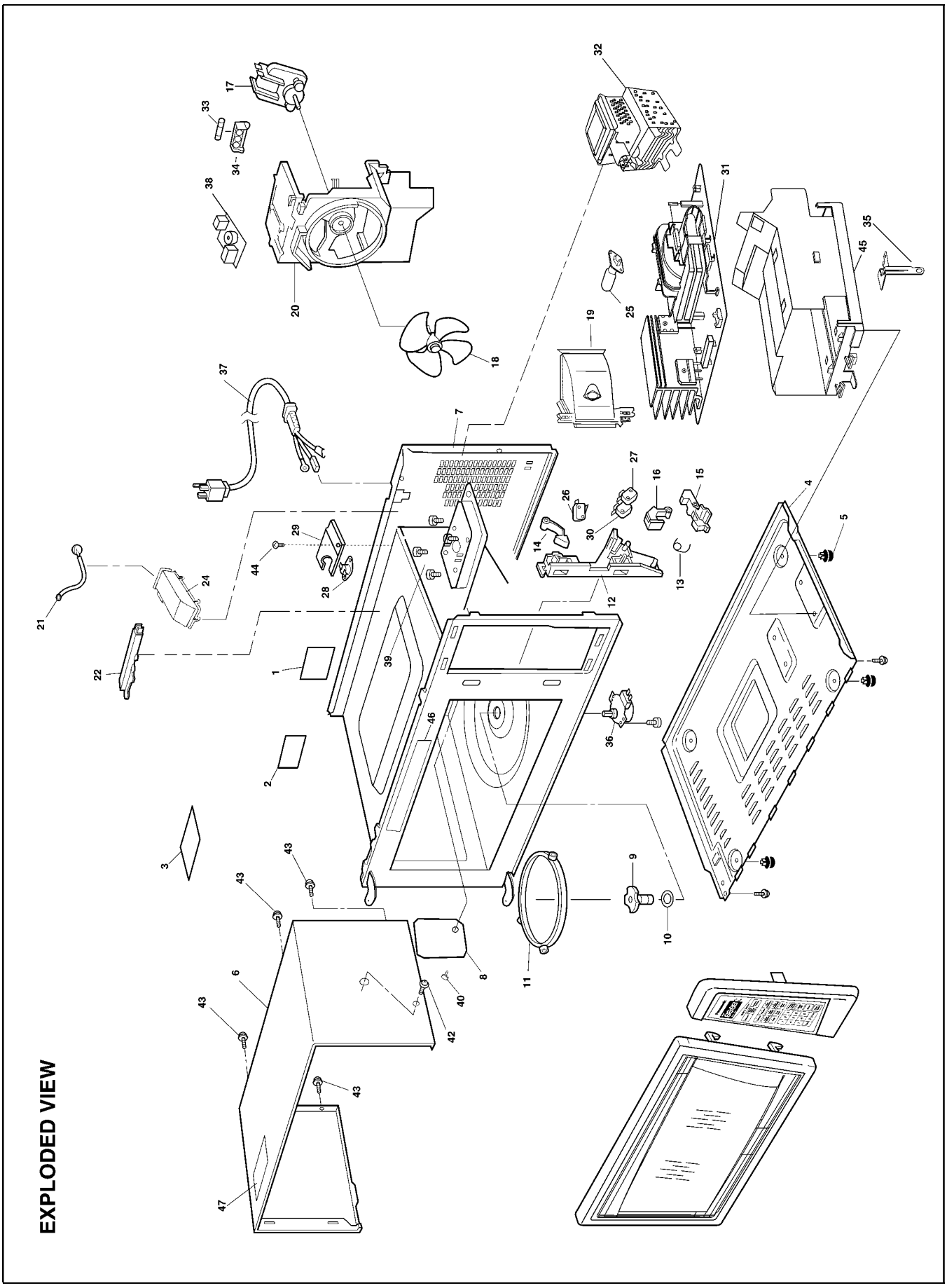
MOVE PROBE ALONG SHADED AREA(//////)AROUND EXHAUST OPENINGS(as shown)AND AROUND AIR INLET OPENING

4 EXPLODED VIEW AND PARTS LIST

4.1. EXPLODED VIEW



4.2. PARTS LIST

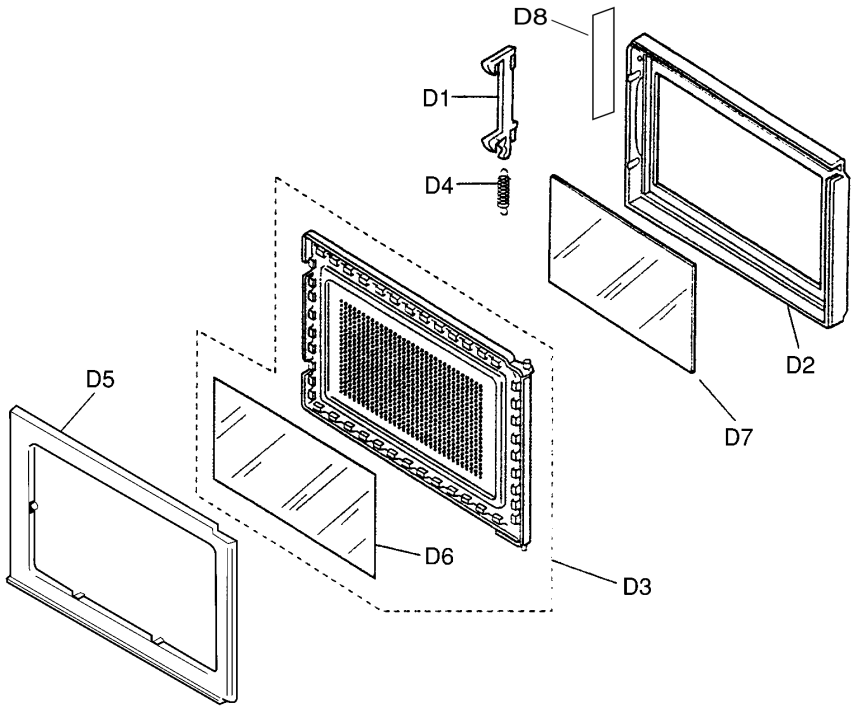
NOTE:

1. When ordering replacement part(s), please use part number(s) shown in this part list.
   Do not use description of the part.
2. Important safety notice:
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components, use only manufacture's specified parts.

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
1		F00064W70AP	CAUTION LABEL	1	T6*4SF APH
1		F00069660AP	CAUTION LABEL	1	H**4 APH, S**4 APH
1		F00067600CP	CAUTION LABEL	1	CPH
2		F00076K50SAP	NAME PLATE	1	H664MF APH
2		F00076K50BAP	NAME PLATE	1	H664BF APH
2		F00076K50HAP	NAME PLATE	1	H664WF APH
2		F00076K80BAP	NAME PLATE	1	S654BF APH
2		F00076K80HAP	NAME PLATE	1	S654WF APH
2		F00076K90BAP	NAME PLATE	1	H644BF APH
2		F00076K90HAP	NAME PLATE	1	H644WF APH
2		F00076L00BAP	NAME PLATE	1	S644BF APH
2		F00076L00HAP	NAME PLATE	1	S644WF APH
2		F00076L10BAP	NAME PLATE	1	H634BF APH
2		F00076L10HAP	NAME PLATE	1	H634WF APH
2		F00076L20BAP	NAME PLATE	1	S634BF APH
2		F00076L20HAP	NAME PLATE	1	S634WF APH
2		F00076L30BAP	NAME PLATE	1	H624BF APH
2		F00076L30HAP	NAME PLATE	1	H624WF APH
2		F00076L40BAP	NAME PLATE	1	S624BF APH
2		F00076L40HAP	NAME PLATE	1	S624WF APH
2		F00076L50BAP	NAME PLATE	1	H614BF APH
2		F00076L50HAP	NAME PLATE	1	H614WF APH
2		F00076L60BAP	NAME PLATE	1	S614BF APH
2		F00076L60HAP	NAME PLATE	1	S614WF APH
2		F00076L70BAP	NAME PLATE	1	H604BF APH
2		F00076L70HAP	NAME PLATE	1	H604WF APH
2		F00076L80BAP	NAME PLATE	1	S604BF APH
2		F00076L80HAP	NAME PLATE	1	S604WF APH
2		F00076M00BAP	NAME PLATE	1	H504BF APH
2		F00076M00HAP	NAME PLATE	1	H504WF APH
2		F00076M10BAP	NAME PLATE	1	S504BF APH
2		F00076M10HAP	NAME PLATE	1	S504WF APH
3		F00339660AP	FUSE LABEL	1	
4		F10016K10AP	BASE	1	
5		F10084T00AP	RUBBER FOOT	4	
6		F110D5Y00SAP	CABINET BODY (U)	1	T694SF APH/CPH, T654SF APH
6		F110D5Y30SAP	CABINET BODY (U)	1	T664SF APH, T644SF APH, H**4MF
6		F110D5Y30BAP	CABINET BODY (U)	1	H**4BF, S**4BF
6		F110D5Y30HAP	CABINET BODY (U)	1	H**4WF, S**4WF
7	⚠	F200A5Y30AP	OVEN (U)	1	T6*4SF APH/CPH, H**4 APH/CPH
7	⚠	F200A5Y40AP	OVEN (U)	1	S**4 APH/CPH
8		F20555L00AP	COVER	1	
9		F21315Y00AP	PULLY SHAFT	1	
10		F2177-F80	WASHER	1	
11		F290D9330AP	ROLLER RING (U)	1	
12	⚠	F30206G30AP	DOOR HOOK	1	T6*4SF APH/CPH
12	⚠	F30206K50AP	DOOR HOOK	1	H**4 APH/CPH, S**4 APH/CPH
13		F3097-5L00	LATCH SPRING	1	H**4 APH/CPH, S**4 APH/CPH
14		F31366G30AP	HOOK LEVER A	1	T6*4SF APH/CPH
14		F31366K50AP	HOOK LEVER A	1	H**4 APH/CPH, S**4 APH/CPH
15		F31376G30AP	HOOK LEVER B	1	T6*4SF APH/CPH
15		F31376K50AP	HOOK LEVER B	1	H**4 APH/CPH, S**4 APH/CPH
16		F31386G30AP	HOOK LEVER C	1	T6*4SF APH/CPH
16		F31386K50AP	HOOK LEVER C	1	H**4 APH/CPH, S**4 APH/CPH
17		F400A4T00AP	FAN MOTOR	1	AC120V, SINGLE PHASE, 60Hz
18		F40084T00AP	FAN BLADE	1	
19		F40254T00AP	AIR GUIDE A	1	
20		F41445Y00AP	ORIFICE	1	

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
21		A607S4T00AP	STEAM SENSOR	1	T6*4SF APH/CPH, H6*4 APH/CPH, H504 APH
22		F64508660AP	SENSOR COVER B	1	T6*4SF APH/CPH, H6*4 APH/CPH, H504 APH
24		F65434W00AP	SENSOR COVER C	1	T6*4SF APH/CPH, H6*4 APH/CPH, H504 APH
25		F612E5Y30AP	INCANDESCENT LAMP (U)	1	125V, 60Hz, 20W
26	⚠	J61424T00AP	MICRO SWITCH	1	(PRIMARY LATCH SWITCH) (V-15G-3C25)
27	⚠	J61414T00AP	MICRO SWITCH	1	(SECONDARY LATCH SWITCH) (D3V-16G-3C25)
28	⚠	F61455L00CP	THERMAL CUTOUT	1	CPH (105°C)
29		F66264T00CP	THERMAL CUTOUT INSULATION BRACKET	1	CPH
30	⚠	J61784T00AP	MICRO SWITCH	1	(SHORT SWITCH) (D3V-1G-2C25)
31	⚠	F606Y6G00AP	H.V.INVERTER (U)	1	
32	⚠	2M75P1-21	MAGNETRON	1	APH
32	⚠	2M261-M32G	MAGNETRON	1	CPH
33	⚠	B62308250AP	FUSE	1	18A/120V
34		B62314000AP	FUSE HOLDER	1	APH
35		F66626K50AP	GROUNDING PLATE	1	
36		F63265G60AP	TURNTABLE MOTOR	1	
37	⚠	F900C4T60CP	AC CORD W/PLUG	1	T6*4SF APH
37	⚠	F900C4T00AP	AC CORD W/PLUG	1	H**4 APH, S**4 APH
37	⚠	F900C5Y30CP	AC CORD W/PLUG	1	CPH
38		J692Y4T00CPR	NOISE FILTER (U)	1	CPH
39		XTWFA4+12T	SCREW	4	FOR MAGNETRON
40		XTTFA4+6BN	SCREW	1	FOR COVER
42		XTCA4+12AFM	SCREW	1	FOR CABINET BODY SIDE (T694SF APH/CPH, T654SF APH)
42		XTCA4+12AFS	SCREW	1	FOR CABINET BODY SIDE (T664SF APH, T644SF APH, H**4MF, S**4MF)
42		XTCA4+12AFK	SCREW	1	FOR CABINET BODY SIDE (H**4BF, S**4BF)
42		XTCA4+12AFW	SCREW	1	FOR CABINET BODY SIDE (H**4WF, S**4WF)
43		XTTANE4T12A0	SCREW	4	FOR CABINET BODY
44		XTWAFE4+8S	SCREW	1	CPH (FOR THERMAL CUTOUT)
45		F65856K10AP	INVERTER BRACKET	1	T6*4SF APH
45		F65856K50AP	INVERTER BRACKET	1	EXCEPT T6*4SF APH
46		F03346K10AP	MENU LABEL	1	T694SF APH
46		F03346K10CP	MENU LABEL	1	T694SF CPH
46		F03345Y30AP	MENU LABEL	1	T664SF APH, T654SF APH, T644SF APH, H664MF/BF/WF APH
46		F03345Y40AP	MENU LABEL	1	S654BF/WF APH
46		F03345Y70AP	MENU LABEL	1	H634BF/WF APH, H674WF CPH
46		F03346L20AP	MENU LABEL	1	S634BF/WF APH
47		F02445Y00AP	CAUTION LABEL	1	T654SF APH

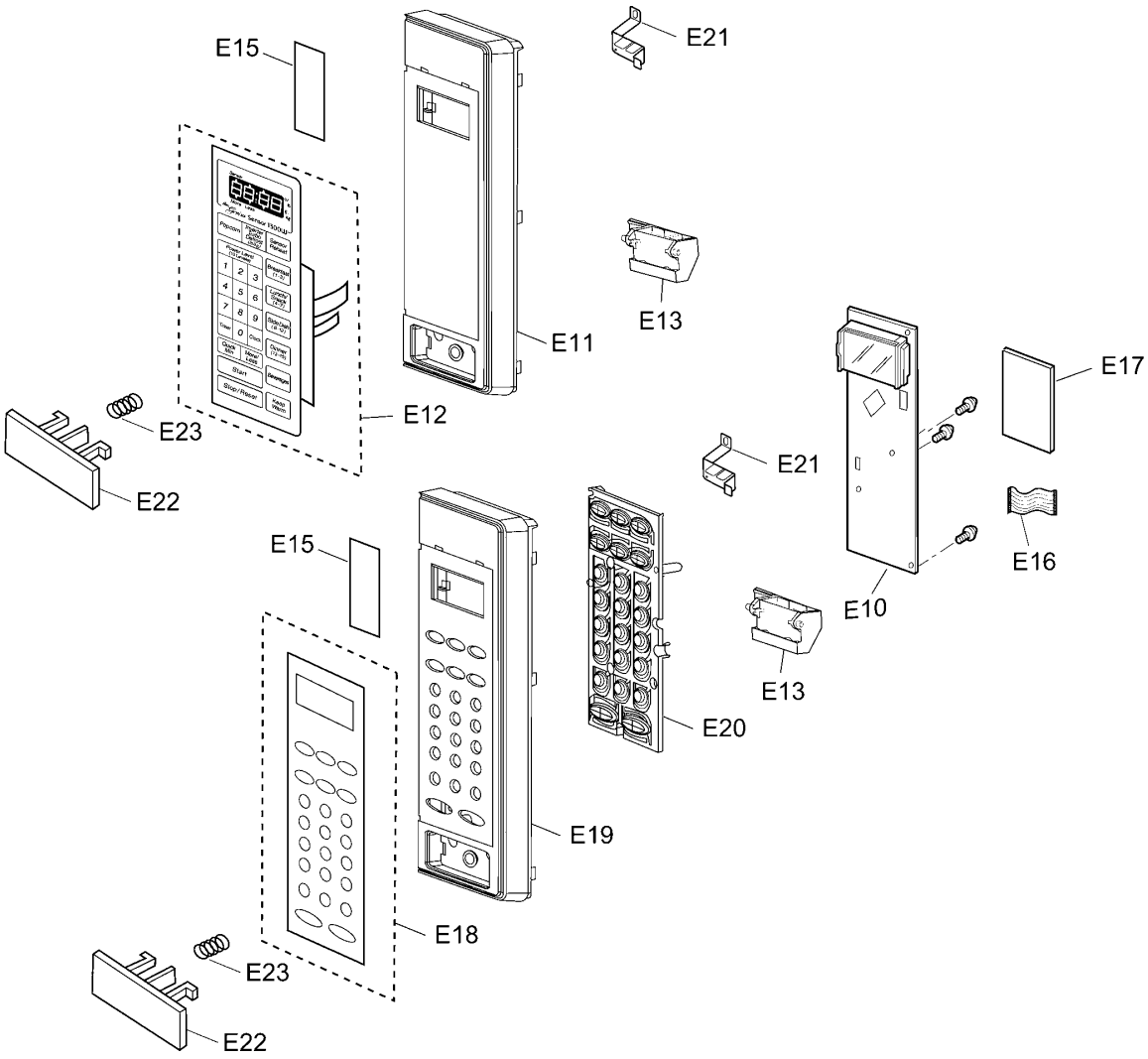
4.3. DOOR ASSEMBLY



Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
D1		F3018-1200	DOOR KEY A	1	T6*4SF APH/CPH
D1		F30184Y30XN	DOOR KEY A	1	H**4 APH, S**4 APH
D2		F302A5Y00SAP	DOOR A (U)	1	T6*4SF APH/CPH
D2	⚠	F30016K50SAP	DOOR A	1	H664MF APH/CPH
D2	⚠	F30016K50BAP	DOOR A	1	H664BFAPH/CPH, S654BF APH, H644BF APH, S644BF APH, H634BF APH, S634BF APH
D2	⚠	F30016K50HAP	DOOR A	1	H664WF APH/CPH, S654WF APH, H644WF APH, S644WF APH, H634WF APH, S634WF APH/CPH, H674WF CPH, S614WF CPH, S604WF CPH
D2	⚠	F30015Y30BAP	DOOR A	1	H624BF APH, S624BF APH, H614BF APH, S614BF APH, H604BF APH, S604BF APH
D2	⚠	F30015Y30HAP	DOOR A	1	H624WF APH, S624WF APH/CPH, H614WF APH, S614WF APH, H604WF APH, S604WF APH
D2	⚠	F30015A00BAP	DOOR A	1	H504BF APH, S504BF APH
D2	⚠	F30015A00SAP	DOOR A	1	S504MF CPH
D2	⚠	F30014T00HAP	DOOR A	1	H504WF APH, S504WF APH/CPH
D3	⚠	F302K5L00AP	DOOR E (U)	1	EXCEPT H5*4 APH/CPH & S5*4 APH/CPH
D3	⚠	F302K4T00AP	DOOR E (U)	1	H5*4 APH, S5*4 APH/CPH
D4		F30215G10XN	DOOR KEY SPRING	1	
D5	⚠	F30854T00AP	DOOR C	1	
D6	⚠	F31454T00AP	DOOR SCREEN A	1	
D7		F31465Y00SAP	DOOR SCREEN B	1	T694SF APH/CPH, T654SF APH, T644SF APH
D7		F31465Y20BAP	DOOR SCREEN B	1	T664SF APH
D7		F31466K50BAP	DOOR SCREEN B	1	H664MF APH/CPH, H664BF APH/CPH, S654BF APH, H644BF APH, S644BF APH, H634BF APH, S634BF APH
D7		F31466K50HAP	DOOR SCREEN B	1	H664WF APH/CPH, S654WF APH, H644WF APH, S644WF APH, H634WF APH, S634WF APH/CPH, H674WF CPH, S614WF CPH, S604WF CPH
D7		F31465Y30BAP	DOOR SCREEN B	1	H624BF APH, S624BF APH, H614BF APH, S614BF APH, H604BF APH, S604BF APH
D7		F31465Y30HAP	DOOR SCREEN B	1	H624WF APH, S624WF APH/CPH, H614WF APH, S614WF APH, H604WF APH, S604WF APH
D7		F31464T00BAP	DOOR SCREEN B	1	H504BF APH, S504BF APH, S504MF CPH
D7		F31464T00HAP	DOOR SCREEN B	1	H504WF APH, S504WF APH/CPH
D8		F02459660AP	DHHS LABEL	1	T6*4SF APH, H504BF/WF APH, S504BF/WF APH
D8		F04114180CP	DHHS LABEL	1	T694SF CPH, S504MF/WF CPH

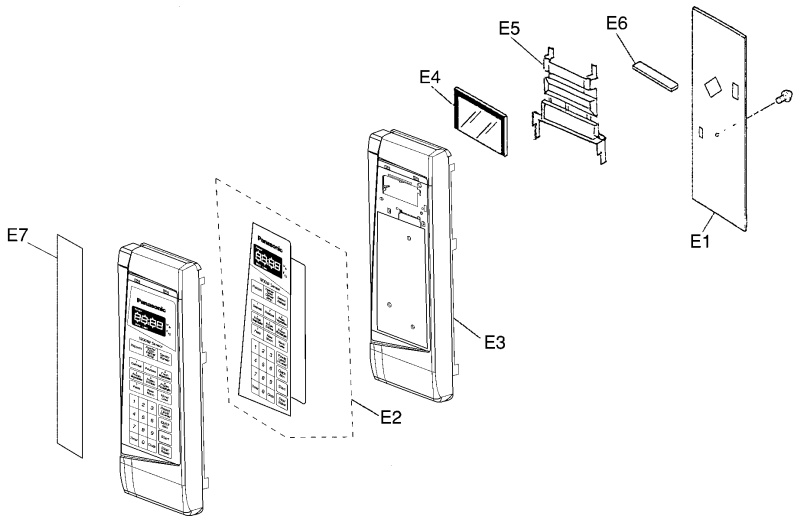
4.4. ESCUTCHEON BASE ASSEMBLY

4.4.1. NN-T6*4 APH/CPH



Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
E10		F603L6K10AP	D.P.CIRCUIT (AU)	1	T694SF APH
E10		F603L6K10CP	D.P.CIRCUIT (AU)	1	T694SF CPH
E10		F603L5K30AP	D.P.CIRCUIT (AU)	1	T664SF APH, T654SF APH, T644SF APH
E11		F800L5Y00BAP	CONTROL PANEL (U)	1	T664SF APH, T654SF APH, T644SF APH
E12		F630Y6K30BAP	MEMBRANE SWITCH (U)	1	T664SF APH
E12		F630Y6K40SAP	MEMBRANE SWITCH (U)	1	T654SF APH, T644SF APH
E13		F82566K10AP	DOOR OPENING LEVEL	1	T694SF APH/CPH
E13		F82565Y00AP	DOOR OPENING LEVEL	1	T664SF APH, T654SF APH, T644SF APH
E15		F00076K10AP	NAME PLATE	1	T694SF APH
E15		F00076K30AP	NAME PLATE	1	T664SF APH
E15		F00076K40AP	NAME PLATE	1	T654SF APH
E15		F00076Q50AP	NAME PLATE	1	T644SF APH
E15		F00076K10CP	NAME PLATE	1	T694SF CPH
E16		F66164W20AP	FLAT CABLE	1	T694SF APH/CPH
E17		F603Y6K10AP	D.P.CIRCUIT (DU)	1	T694SF APH
E17		F603Y5W00CP	D.P.CIRCUIT (DU)	1	T694SF CPH
E18		F83376K10SAP	MEMBRANE SHEET	1	T694SF APH
E18		F83376K10SCP	MEMBRANE SHEET	1	T694SF CPH
E19		F800L6K10AP	CONTROL PANEL (U)	1	T694SF APH/CPH
E20		F82986K10AP	BUTTON	1	T694SF APH/CPH
E21		F90095X00AP	GROUNDING PANEL	1	T6*4SF APH/CPH
E22		F80725Y00SAP	DOOR OPENING BUTTON	1	T6*4SF APH/CPH
E23		F80375K00AP	COOK BUTTON SPRING	1	T6*4SF APH/CPH

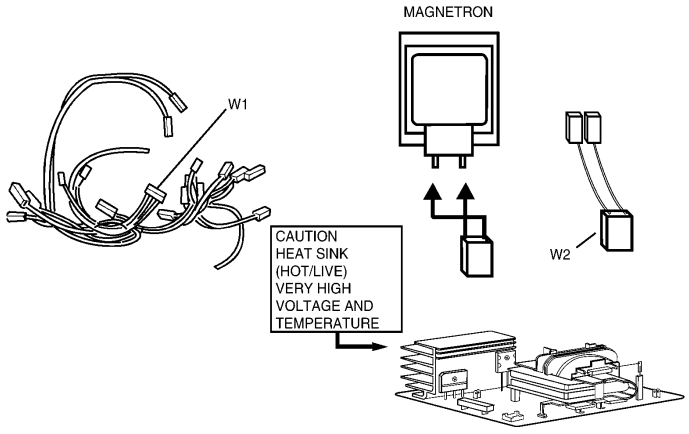
4.4.2. NN-H**4 APH/CPH, S**4 APH/CPH



Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
E1		F603L6K50AP	D.P.CIRCUIT	1	H664MF/BF/WF APH
E1		F603L6K80AP	D.P.CIRCUIT	1	S654BF/WF APH
E1		F603L6K90AP	D.P.CIRCUIT	1	H644BF/WF APH
E1		F603L6L00AP	D.P.CIRCUIT	1	S644BF/WF APH
E1		F603L6L10AP	D.P.CIRCUIT	1	H634BF/WF APH
E1		F603L6L20AP	D.P.CIRCUIT	1	S634BF/WF APH
E1		F603L6L30AP	D.P.CIRCUIT	1	H624BF/WF APH
E1		F603L6L40AP	D.P.CIRCUIT	1	S624BF/WF APH
E1		F603L6L50AP	D.P.CIRCUIT	1	H614BF/WF APH
E1		F603L6L60AP	D.P.CIRCUIT	1	S614BF/WF APH
E1		F603L6L70AP	D.P.CIRCUIT	1	H604BF/WF APH, H504BF/WF APH
E1		F603L6L80AP	D.P.CIRCUIT	1	S604BF/WF APH, S504BF/WF APH
E1		F603L6K50CP	D.P.CIRCUIT	1	H664MF/BF/WF CPH
E1		F603L6L30CP	D.P.CIRCUIT	1	H674WF CPH
E1		F603L6L20CP	D.P.CIRCUIT	1	S634WF CPH
E1		F603L6L40CP	D.P.CIRCUIT	1	S624WF CPH
E1		F603L6L60CP	D.P.CIRCUIT	1	S614WF CPH
E1		F603L6L80CP	D.P.CIRCUIT	1	S604WF CPH
E1		F603L6M10CP	D.P.CIRCUIT	1	S504MF/WF CPH
E2		F630Y6K50SAP	MEMBRANE SWITCH (U)	1	H664MF APH
E2		F630Y6K50BAP	MEMBRANE SWITCH (U)	1	H664BF APH
E2		F630Y6K50HAP	MEMBRANE SWITCH (U)	1	H664WF APH
E2		F630Y6K80BAP	MEMBRANE SWITCH (U)	1	S654BF APH
E2		F630Y6K80HAP	MEMBRANE SWITCH (U)	1	S654WF APH
E2		F630Y6K90BAP	MEMBRANE SWITCH (U)	1	H644BF APH
E2		F630Y6K90HAP	MEMBRANE SWITCH (U)	1	H644WF APH
E2		F630Y6L00BAP	MEMBRANE SWITCH (U)	1	S644BF APH
E2		F630Y6L00HAP	MEMBRANE SWITCH (U)	1	S644WF APH
E2		F630Y6L10BAP	MEMBRANE SWITCH (U)	1	H634BF APH
E2		F630Y6L10HAP	MEMBRANE SWITCH (U)	1	H634WF APH
E2		F630Y6L20BAP	MEMBRANE SWITCH (U)	1	S634BF APH
E2		F630Y6L20HAP	MEMBRANE SWITCH (U)	1	S634WF APH
E2		F630Y6L30BAP	MEMBRANE SWITCH (U)	1	H624BF APH
E2		F630Y6L30HAP	MEMBRANE SWITCH (U)	1	H624WF APH
E2		F630Y6L40BAP	MEMBRANE SWITCH (U)	1	S624BF APH
E2		F630Y6L40HAP	MEMBRANE SWITCH (U)	1	S624WF APH
E2		F630Y6L50BAP	MEMBRANE SWITCH (U)	1	H614BF APH
E2		F630Y6L50HAP	MEMBRANE SWITCH (U)	1	H614WF APH
E2		F630Y6L60BAP	MEMBRANE SWITCH (U)	1	S614BF APH
E2		F630Y6L60HAP	MEMBRANE SWITCH (U)	1	S614WF APH
E2		F630Y6L70BAP	MEMBRANE SWITCH (U)	1	H604BF APH
E2		F630Y6L70HAP	MEMBRANE SWITCH (U)	1	H604WF APH
E2		F630Y6L80BAP	MEMBRANE SWITCH (U)	1	S604BF APH
E2		F630Y6L80HAP	MEMBRANE SWITCH (U)	1	S604WF APH
E2		F630Y6M00BAP	MEMBRANE SWITCH (U)	1	H504BF APH
E2		F630Y6M00HAP	MEMBRANE SWITCH (U)	1	H504WF APH
E2		F630Y6M10BAP	MEMBRANE SWITCH (U)	1	S504BF APH

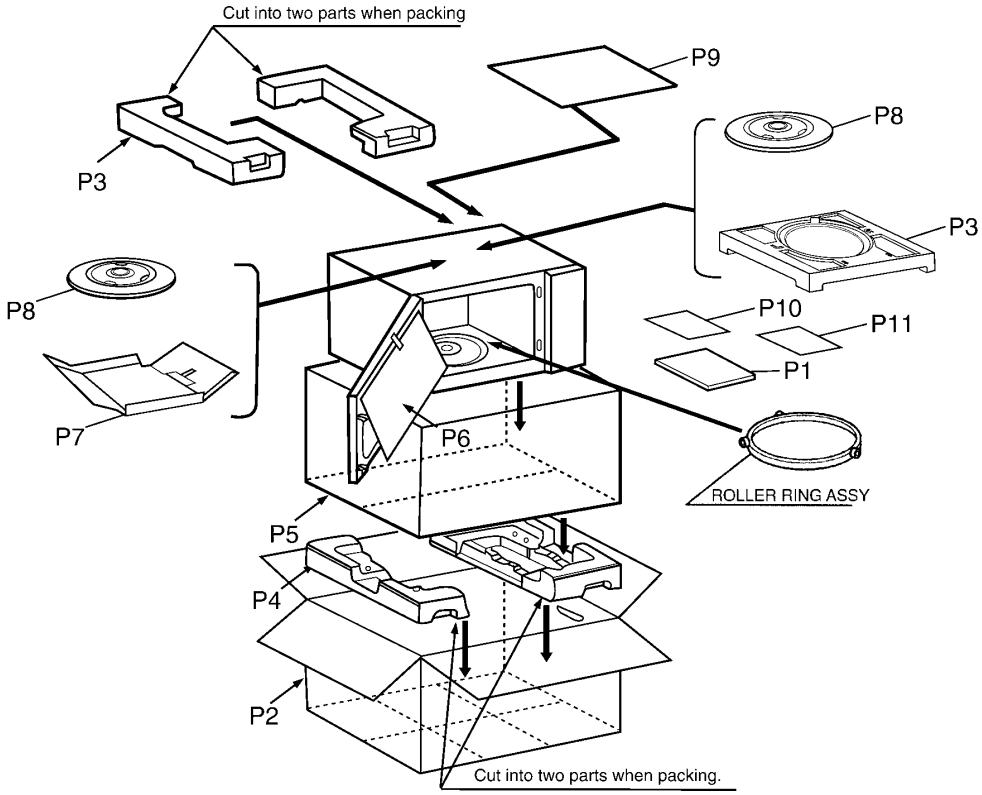
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
E2		F630Y6M10HAP	MEMBRANE SWITCH (U)	1	S504WF APH
E2		F630Y6K50SCP	MEMBRANE SWITCH (U)	1	H664MF CPH
E2		F630Y6K50BCP	MEMBRANE SWITCH (U)	1	H664BF CPH
E2		F630Y6K50HCP	MEMBRANE SWITCH (U)	1	H664WF CPH
E2		F630Y6L30HCP	MEMBRANE SWITCH (U)	1	H674WF CPH
E2		F630Y6L20HCP	MEMBRANE SWITCH (U)	1	S634WF CPH
E2		F630Y6L40HCP	MEMBRANE SWITCH (U)	1	S624WF CPH
E2		F630Y6L60HCP	MEMBRANE SWITCH (U)	1	S614WF CPH
E2		F630Y6L80HCP	MEMBRANE SWITCH (U)	1	S604WF CPH
E2		F630Y6M10SCP	MEMBRANE SWITCH (U)	1	S504MF CPH
E2		F630Y6M10HCP	MEMBRANE SWITCH (U)	1	S504WF CPH
E3		F80346K50SAP	ESCUTCHEON BASE	1	H664MF APH/CPH
E3		F80346K50BAP	ESCUTCHEON BASE	1	H664BF APH/CPH, S654BF APH, H644BF APH, S644BF APH, H634BF APH, S634BF APH
E3		F80346K50HAP	ESCUTCHEON BASE	1	H664WF APH/CPH, S654WF APH, H644WF APH, S644WF APH, H634WF APH, S634WF APH/CPH, H674WF CPH, S614WF CPH, S604WF CPH
E3		F80345Y30BAP	ESCUTCHEON BASE	1	H624BF APH, S624BF APH, H614BF APH, S614BF APH, H604BF APH, S604BF APH
E3		F80345Y30HAP	ESCUTCHEON BASE	1	H624WF APH, S624WF APH, H614WF APH, S614WF APH, H604WF APH, S604WF APH
E3		F80345L00HAP	ESCUTCHEON BASE	1	S624WF CPH
E3		F80344T00BAP	ESCUTCHEON BASE	1	H504BF APH, S504BF APH
E3		F80344T00SAP	ESCUTCHEON BASE	1	S504MF CPH
E3		F80344T00HAP	ESCUTCHEON BASE	1	H504WF APH, S504WF APH/CPH
E4		AEDDHJ5G60XN	DISPLAY	1	H6*4 APH/CPH, S6*4 APH/CPH, H504 APH, S504 APH/CPH
E5		F66175L00AP	DISPLAY TUBE COVER	1	H6*4 APH/CPH, S6*4 APH/CPH
E5		F66174T00AP	DISPLAY TUBE COVER	1	H5*4 APH, S5*4 APH/CPH
E6		F67005U40XN	RUBBER CONNECTOR	1	H6*4 APH/CPH, S6*4 APH/CPH, H504 APH, S504 APH/CPH
E7		F00076K50SCP	NAME PLATE	1	H664MF CPH
E7		F00076K50BCP	NAME PLATE	1	H664BF CPH
E7		F00076K50HCP	NAME PLATE	1	H664WF CPH
E7		F00076L30HCP	NAME PLATE	1	H674WF CPH
E7		F00076L20HCP	NAME PLATE	1	S634WF CPH
E7		F00076L40HCP	NAME PLATE	1	S624WF CPH
E7		F00076L60HCP	NAME PLATE	1	S614WF CPH
E7		F00076L80HCP	NAME PLATE	1	S604WF CPH
E7		F00076M10SCP	NAME PLATE	1	S504MF CPH
E7		F00076M10HCP	NAME PLATE	1	S504WF CPH

4.5. WIRING MATERIALS



Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
W1		F030A6K50AP	LEAD WIRE HARNESS	1	APH
W1		F030A6K50CP	LEAD WIRE HARNESS	1	CPH
W2		F030E5L00AP	H.V.LEAD WIRE	1	APH
W2		F030E4T00CP	H.V.LEAD WIRE	1	T694SF CPH
W2		F030E4T10CP	H.V.LEAD WIRE	1	H**4 CPH, S**4 CPH

4.6. PACKING AND ACCESSORIES



Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
P1		F00036K10AP	INSTRUCTION MANUAL	1	T694SF APH
P1		F00036K50AP	INSTRUCTION MANUAL	1	T664SF APH, T654SF APH, T644SF APH
P1		F00036K50AP	INSTRUCTION MANUAL	1	H664MF/BF/WF APH
P1		F00036K80AP	INSTRUCTION MANUAL	1	S654BF/WF APH
P1		F00036L10AP	INSTRUCTION MANUAL	1	H644BF/WF APH, H634BF/WF APH
P1		F00036L20AP	INSTRUCTION MANUAL	1	S644BF/WF APH, S634BF/WF APH
P1		F00036L30AP	INSTRUCTION MANUAL	1	H624BF/WF APH
P1		F00036L40AP	INSTRUCTION MANUAL	1	S624BF/WF APH
P1		F00036L50AP	INSTRUCTION MANUAL	1	H614BF/WF APH, H604BF/WF APH, H504BF/WF APH
P1		F00036L60AP	INSTRUCTION MANUAL	1	S614BF/WF APH, S604BF/WF APH, S504BF/WF APH
P1		F00036K10CP	INSTRUCTION MANUAL	1	T694SF CPH
P1		F00036K50CP	INSTRUCTION MANUAL	1	H664MF/BF/WF CPH
P1		F00036L30CP	INSTRUCTION MANUAL	1	H674WF CPH
P1		F00036L20CP	INSTRUCTION MANUAL	1	S634WF CPH, S624WF CPH
P1		F00036L80CP	INSTRUCTION MANUAL	1	S614WF CPH, S604WF CPH, S504MF/WF CPH
P2		F01026K10SAP	PACKING CASE, PAPER	1	T694SF APH
P2		F01026K30SAP	PACKING CASE, PAPER	1	T664SF APH
P2		F01026K40SAP	PACKING CASE, PAPER	1	T654SF APH
P2		F01026Q50SAP	PACKING CASE, PAPER	1	T644SF APH
P2		F01026K50SAP	PACKING CASE, PAPER	1	H664MF APH
P2		F01026K50BAP	PACKING CASE, PAPER	1	H664BF APH
P2		F01026K50HAP	PACKING CASE, PAPER	1	H664WF APH
P2		F01026K80BAP	PACKING CASE, PAPER	1	S654BF APH
P2		F01026K80HAP	PACKING CASE, PAPER	1	S654WF APH
P2		F01026K90BAP	PACKING CASE, PAPER	1	H644BF APH
P2		F01026K90HAP	PACKING CASE, PAPER	1	H644WF APH
P2		F01026L00BAP	PACKING CASE, PAPER	1	S644BF APH
P2		F01026L00HAP	PACKING CASE, PAPER	1	S644WF APH
P2		F01026L10BAP	PACKING CASE, PAPER	1	H634BF APH
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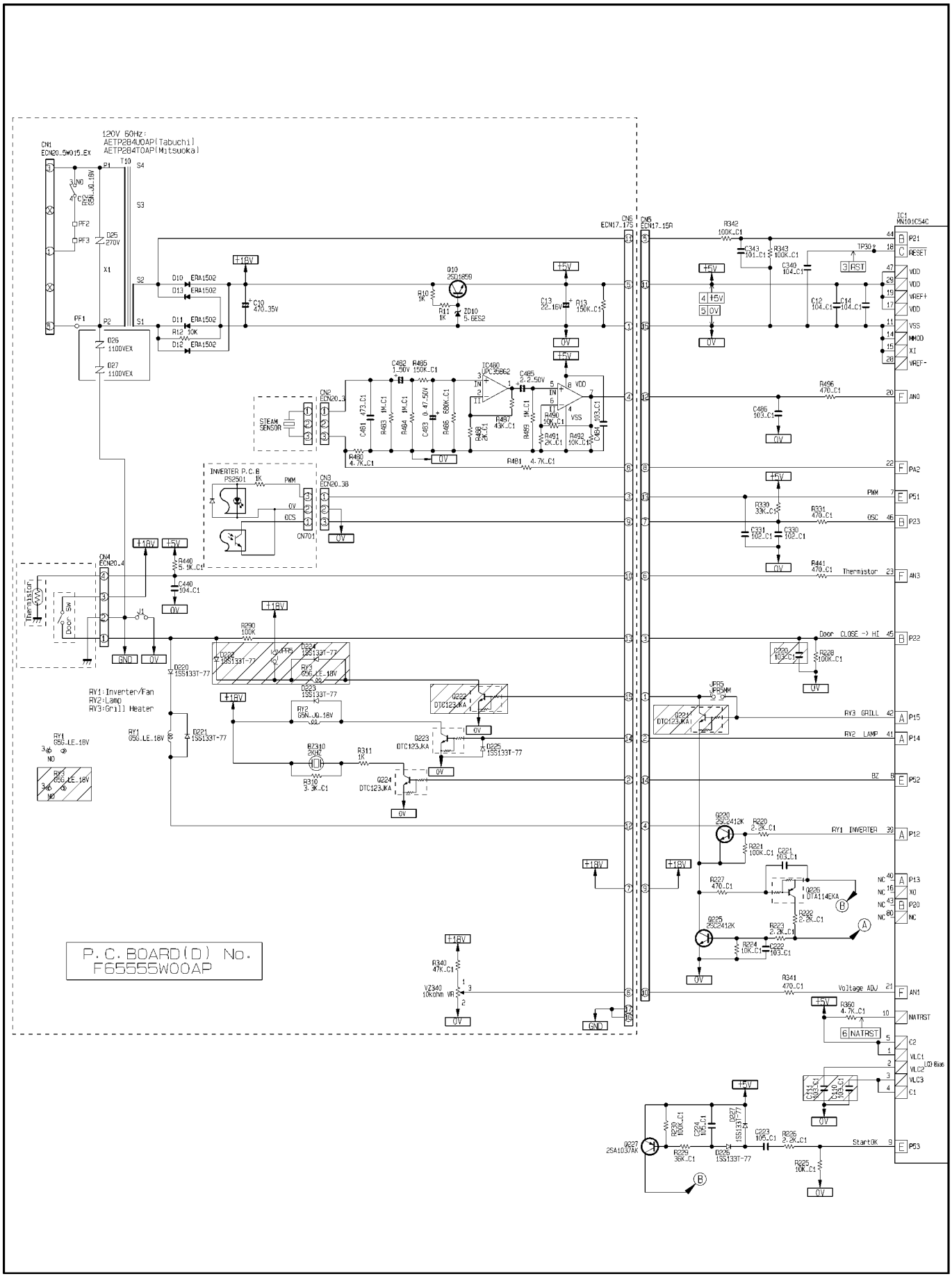
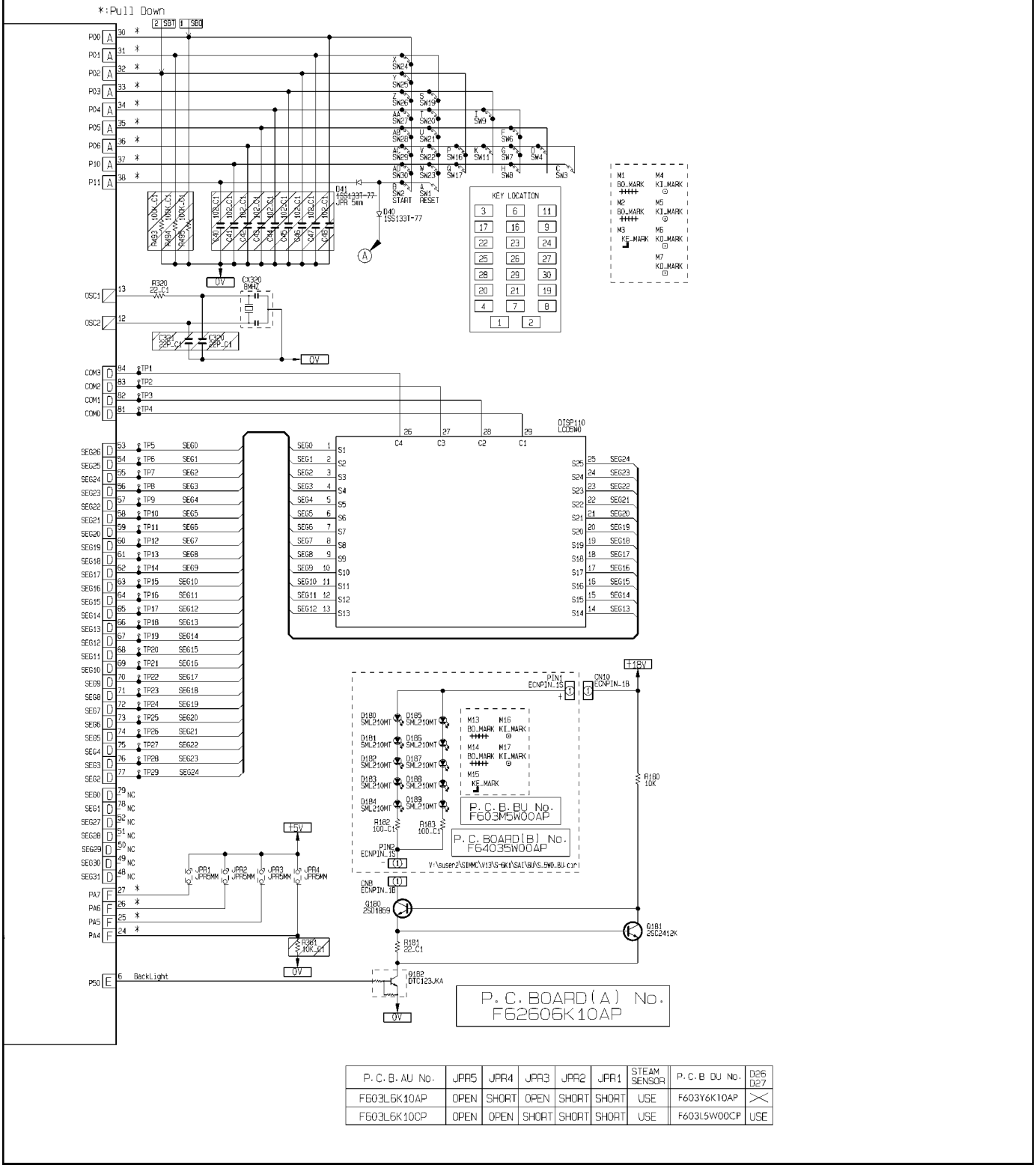
P2		F01026L20BAP	PACKING CASE, PAPER	1	S634BF APH
P2		F01026L20HAP	PACKING CASE, PAPER	1	S634WF APH
P2		F01026L30BAP	PACKING CASE, PAPER	1	H624BF APH
P2		F01026L30HAP	PACKING CASE, PAPER	1	H624WF APH
P2		F01026L40BAP	PACKING CASE, PAPER	1	S624BF APH
P2		F01026L40HAP	PACKING CASE, PAPER	1	S624WF APH
P2		F01026L50BAP	PACKING CASE, PAPER	1	H614BF APH
P2		F01026L50HAP	PACKING CASE, PAPER	1	H614WF APH
P2		F01026L60BAP	PACKING CASE, PAPER	1	S614BF APH
P2		F01026L60HAP	PACKING CASE, PAPER	1	S614WF APH

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
P2		F01026L70BAP	PACKING CASE, PAPER	1	H604BF APH
P2		F01026L70HAP	PACKING CASE, PAPER	1	H604WF APH
P2		F01026L80BAP	PACKING CASE, PAPER	1	S604BF APH
P2		F01026L80HAP	PACKING CASE, PAPER	1	S604WF APH
P2		F01026M00BAP	PACKING CASE, PAPER	1	H504BF APH
P2		F01026M00HAP	PACKING CASE, PAPER	1	H504WF APH
P2		F01026M10BAP	PACKING CASE, PAPER	1	S504BF APH
P2		F01026M10HAP	PACKING CASE, PAPER	1	S504WF APH
P2		F01026K10SCP	PACKING CASE, PAPER	1	T694SF CPH
P2		F01026K50SCP	PACKING CASE, PAPER	1	H664MF CPH
P2		F01026K50BCP	PACKING CASE, PAPER	1	H664BF CPH
P2		F01026K50HCP	PACKING CASE, PAPER	1	H664WF CPH
P2		F01026L30HCP	PACKING CASE, PAPER	1	H674WF CPH
P2		F01026L20HCP	PACKING CASE, PAPER	1	S634WF CPH
P2		F01026L40HCP	PACKING CASE, PAPER	1	S624WF CPH
P2		F01026L60HCP	PACKING CASE, PAPER	1	S614WF CPH
P2		F01026L80HCP	PACKING CASE, PAPER	1	S604WF CPH
P2		F01026M10SCP	PACKING CASE, PAPER	1	S504MF CPH
P2		F01026M10HCP	PACKING CASE, PAPER	1	S504WF CPH
P3		F01046K50AP	UPPER FILLER	1	EXCEPT H504 APH & S504 APH/CPH
P3		F01045L30AP	UPPER FILLER		H504 APH, S504 APH/CPH
P4		F01055L00AP	LOWER FILLER	1	EXCEPT H504 APH & S504 APH/CPH
P4		F01054T00AP	LOWER FILLER		H504 APH, S504 APH/CPH
P5		F01068100XN	P.E.BAG	1	
P6		F01078100XN	DOOR SHEET	1	
P7		F01085T20RP	TRAY PACKING	1	H504 APH, S504 APH/CPH
P8		F06014T00AP	COOKING TRAY	1	
P9		F01924T00AP	SHEET	1	T644SF APH, H**4MF/BF, S**4MF/BF
P10		F00065G40AP	CAUTION LABEL	1	APH
P11		F04456K10AP	OVERLAY	1	T694SF APH
P11		F04456K10CP	OVERLAY	1	T694SF CPH
P11		F04456K50SCP	OVERLAY	1	H664MF CPH
P11		F04456K50BCP	OVERLAY	1	H664BF CPH
P11		F04456K50HCP	OVERLAY	1	H664WF CPH
P11		F04456L30CP	OVERLAY	1	H674WF CPH
P11		F04456L20CP	OVERLAY	1	S634WF CPH
P11		F04456L40CP	OVERLAY	1	S624WF CPH
P11		F04456L60CP	OVERLAY	1	S614WF CPH
P11		F04456L80CP	OVERLAY	1	S604WF CPH
P11		F04456M10SCP	OVERLAY	1	S504MF CPH
P11		F04456M10HCP	OVERLAY	1	S504WF CPH

5 DIGITAL PROGRAMMER CIRCUIT

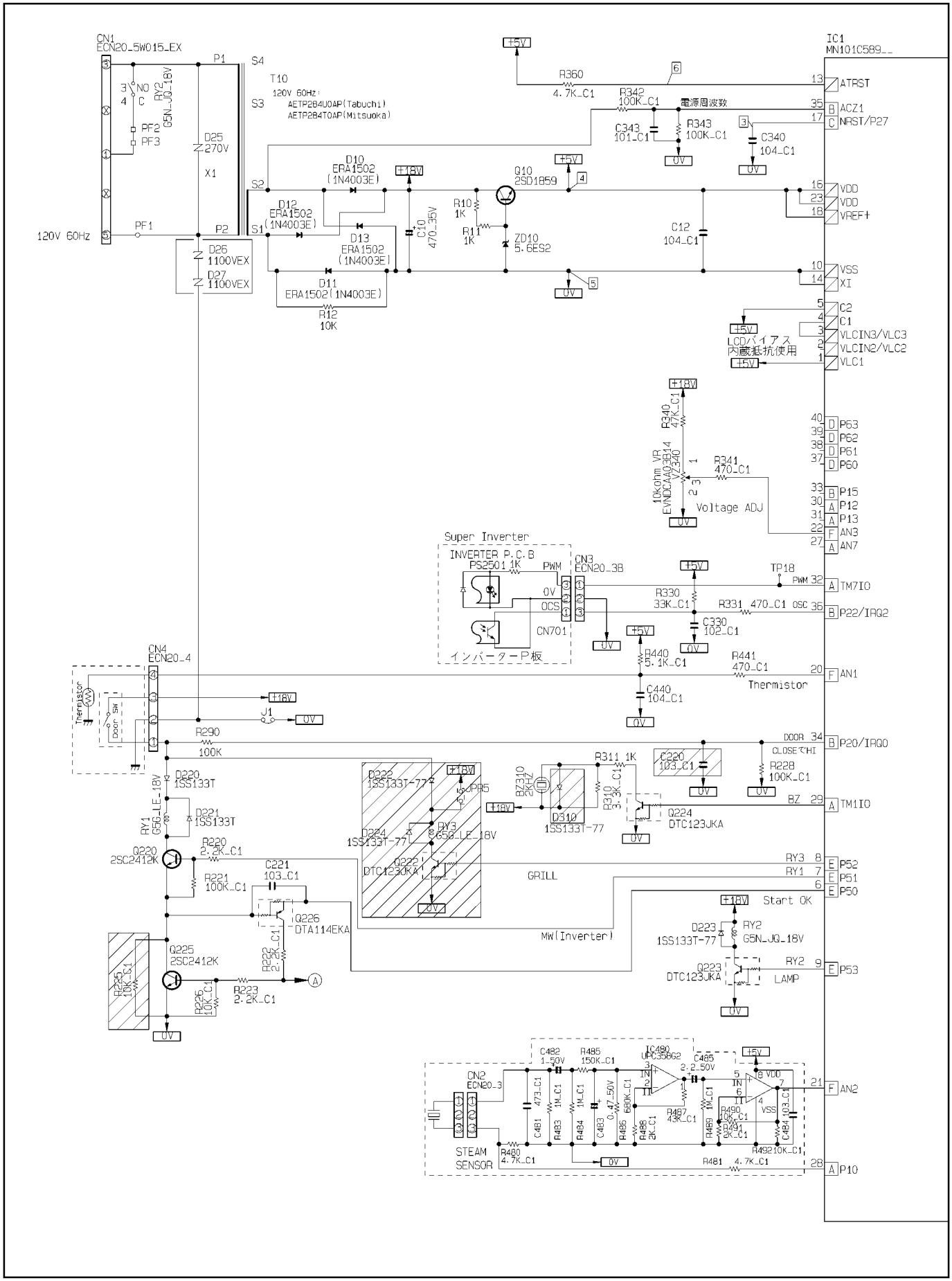
5.1. NN-T694SF APH/CPH

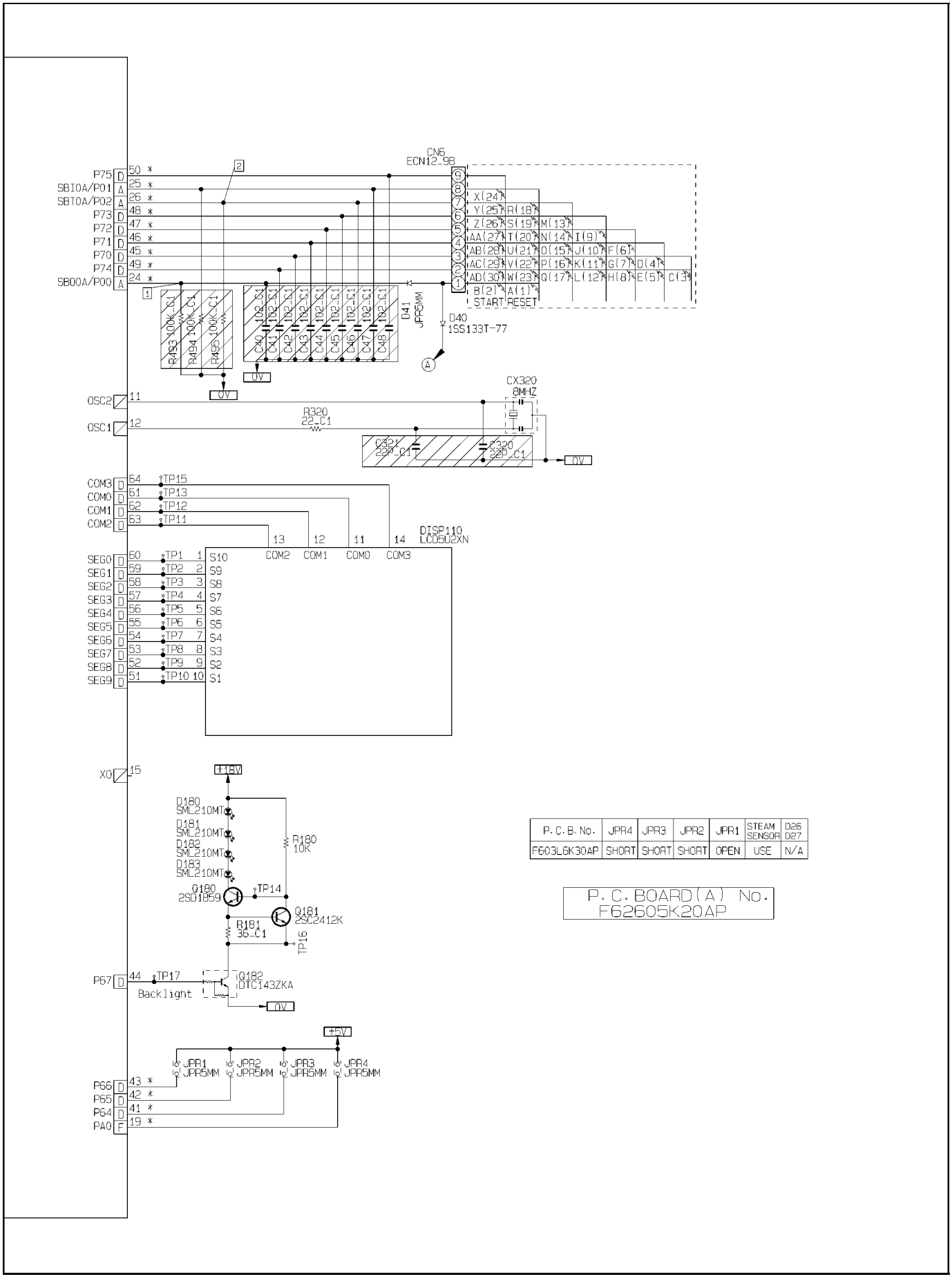




P.C.B.AU No.	JPR5	JPR4	JPR3	JPR2	JPR1	STEAM SENSOR	P.C.B BU No.	D26 D27
F603L6K10AP	OPEN	SHORT	OPEN	SHORT	SHORT	USE	F603Y6K10AP	✕
F603L6K10CP	OPEN	OPEN	SHORT	SHORT	SHORT	USE	F603L5W00CP	USE

5.2. NN-T664SF APH, T654SF APH, T644SF APH

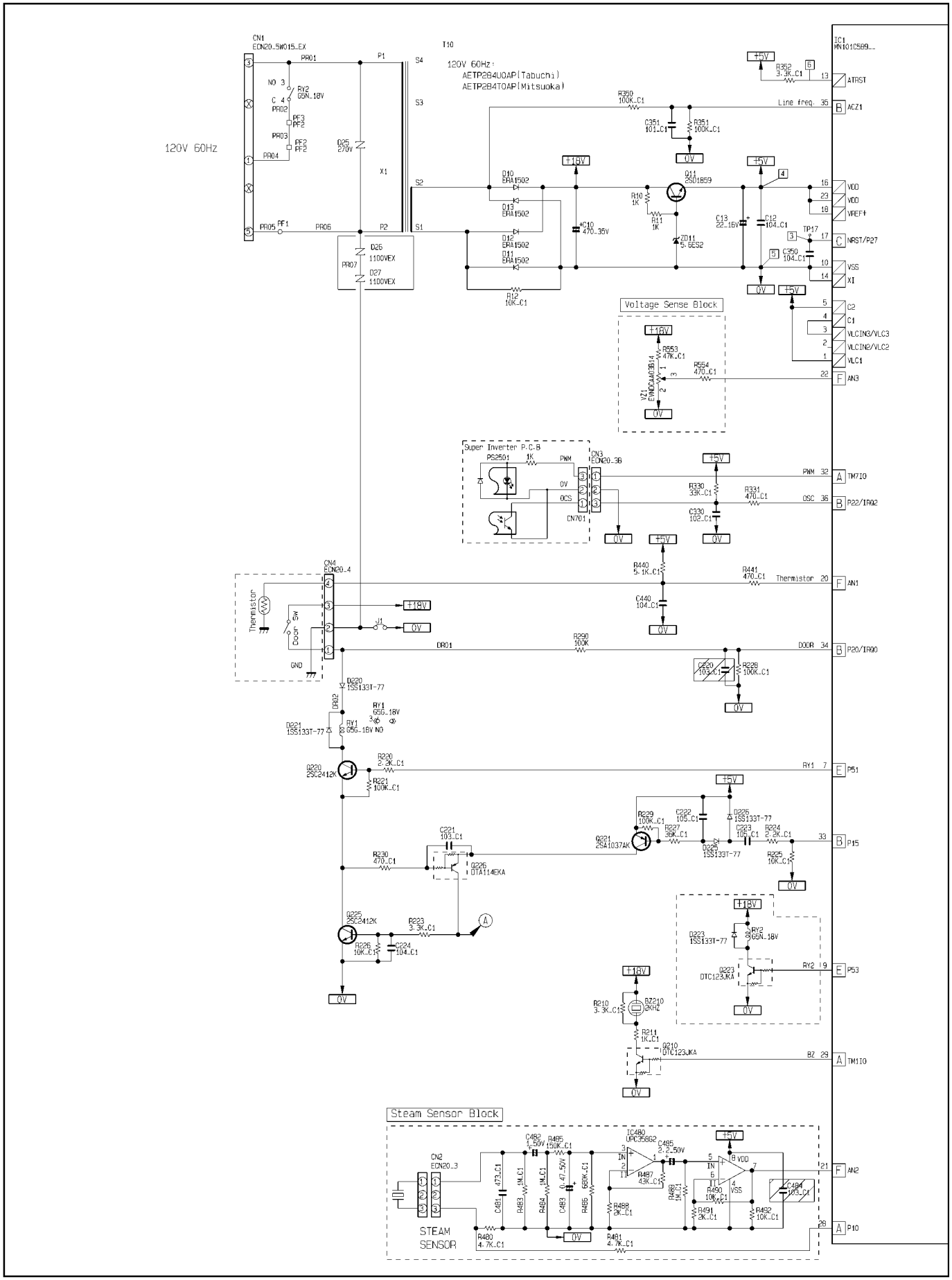


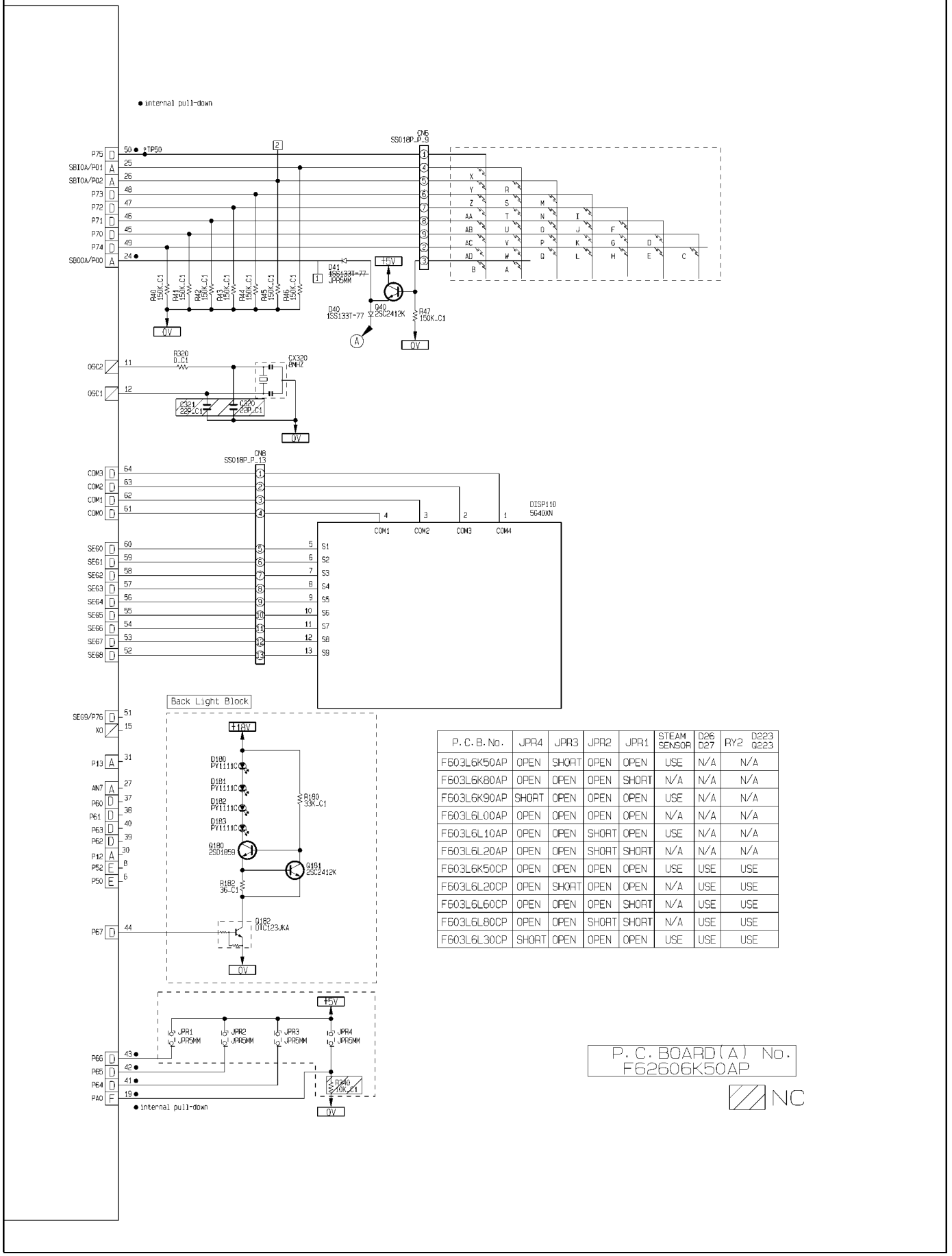


P. C. B. No.	JPR4	JPR3	JPR2	JPR1	STEAM SENSOR	D26 D27
F603L6K30AP	SHORT	SHORT	SHORT	OPEN	USE	N/A

P. C. BOARD(A) No.
F62605K20AP

5.3. NN-H664 APH/CPH, H674 CPH, S654 APH, H644 APH, S644 APH, H634 APH, S634 APH/CPH, S614 CPH, S604 CPH



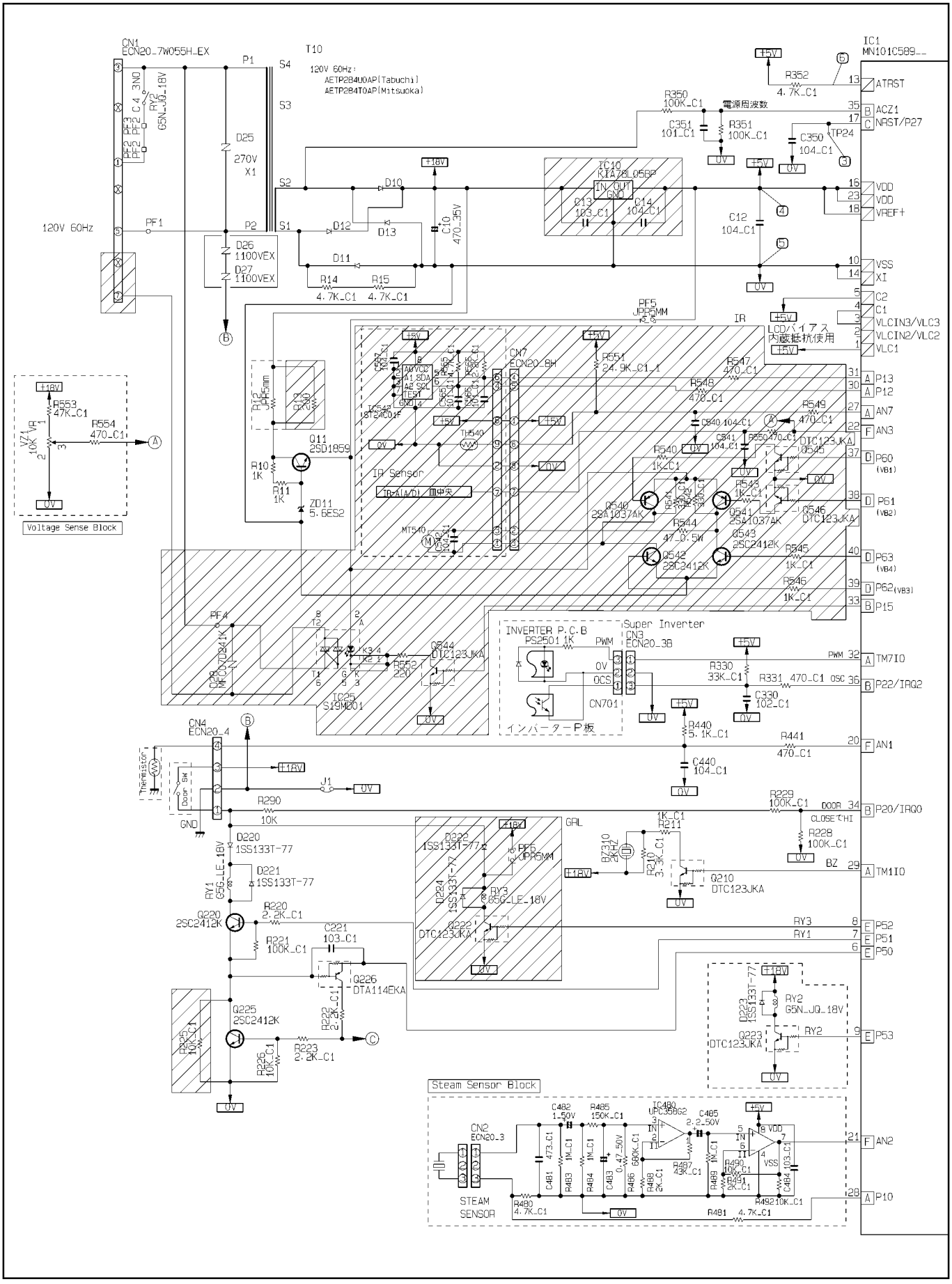


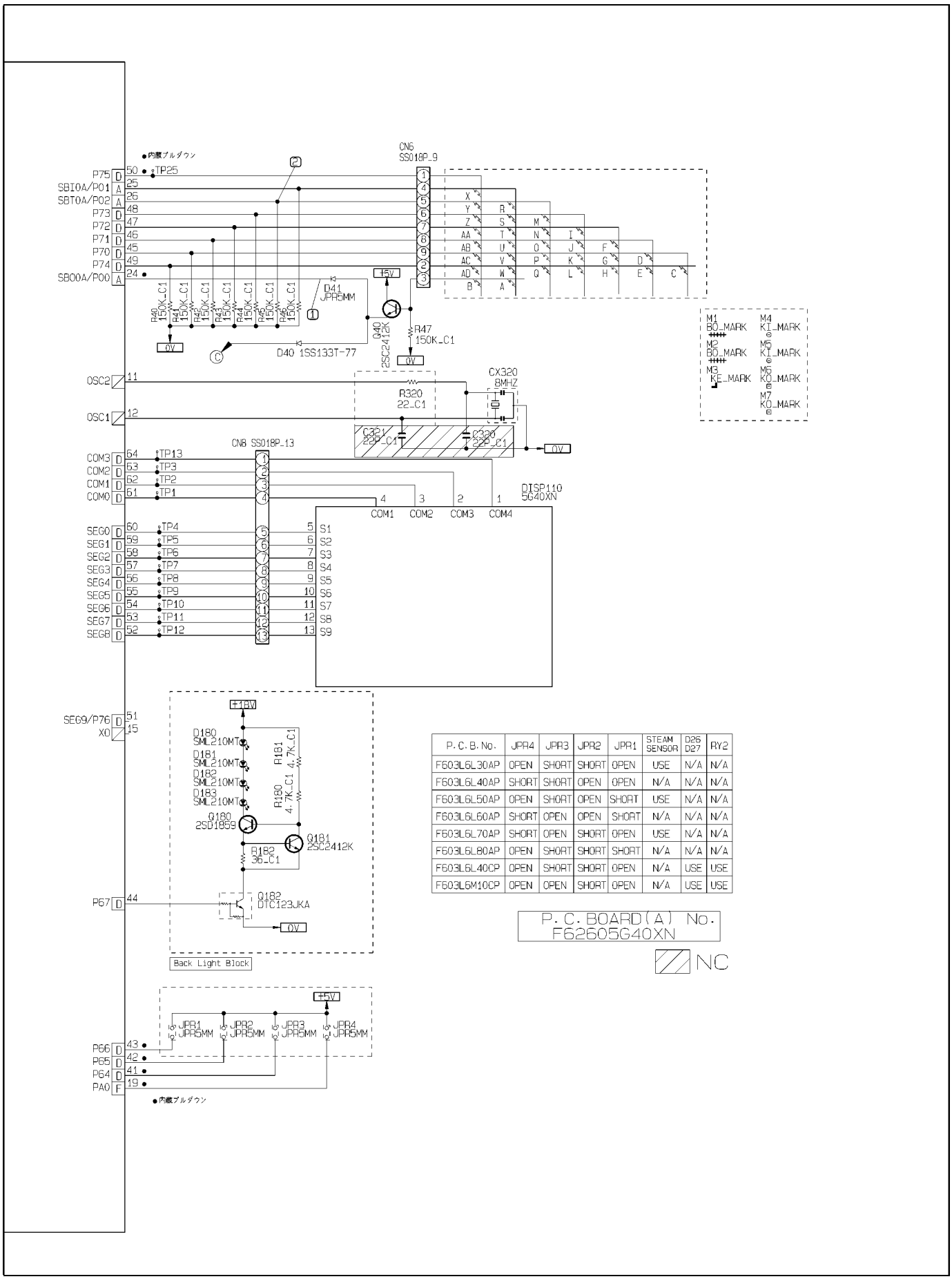
P.C.B.No.	JPR4	JPR3	JPR2	JPR1	STEAM SENSOR	D26 D27	RY2 D223 Q223
F603L6K50AP	OPEN	SHORT	OPEN	OPEN	USE	N/A	N/A
F603L6K80AP	OPEN	OPEN	OPEN	SHORT	N/A	N/A	N/A
F603L6K90AP	SHORT	OPEN	OPEN	OPEN	USE	N/A	N/A
F603L6L00AP	OPEN	OPEN	OPEN	OPEN	N/A	N/A	N/A
F603L6L10AP	OPEN	OPEN	SHORT	OPEN	USE	N/A	N/A
F603L6L20AP	OPEN	OPEN	SHORT	SHORT	N/A	N/A	N/A
F603L6K50CP	OPEN	OPEN	OPEN	OPEN	USE	USE	USE
F603L6L20CP	OPEN	SHORT	OPEN	OPEN	N/A	USE	USE
F603L6L60CP	OPEN	OPEN	OPEN	SHORT	N/A	USE	USE
F603L6L80CP	OPEN	OPEN	SHORT	SHORT	N/A	USE	USE
F603L6L30CP	SHORT	OPEN	OPEN	OPEN	USE	USE	USE

P.C.BOARD(A) No.
F62606K50AP

NC

5.4. NN-H624 APH, S624 APH/CPH, H614 APH, S614 APH, H604 APH, S604 APH, H504 APH, S504 APH/CPH





P.C.B.No.	JPR4	JPR3	JPR2	JPR1	STEAM SENSOR	D26 D27	RY2
F603L6L30AP	OPEN	SHORT	SHORT	OPEN	USE	N/A	N/A
F603L6L40AP	SHORT	SHORT	OPEN	OPEN	N/A	N/A	N/A
F603L6L50AP	OPEN	SHORT	OPEN	SHORT	USE	N/A	N/A
F603L6L60AP	SHORT	OPEN	OPEN	SHORT	N/A	N/A	N/A
F603L6L70AP	SHORT	OPEN	SHORT	OPEN	USE	N/A	N/A
F603L6L80AP	OPEN	SHORT	SHORT	SHORT	N/A	N/A	N/A
F603L6L40CP	OPEN	SHORT	SHORT	OPEN	N/A	USE	USE
F603L6M10CP	OPEN	OPEN	SHORT	OPEN	N/A	USE	USE

P.C.BOARD(A) No.
F62605G40XN

NC

5.5. PARTS LIST

5.5.1. NN-H**4 APH/CPH, NN-S**4 APH/CPH

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
BZ210		AEFBAT2001	BUZZER	1	2.0KHz (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
BZ310		AEFBAT2001	BUZZER	1	2.0KHz (H624 APH, H614 APH, H604 APH, H504 APH, S624 APH, S614 APH, S604 APH, S504 APH/CPH)
C351		AECUU06C101J	CHIP CAPACITOR	1	100PF/50V
C330		AECUU06R102K	CHIP CAPACITOR	1	1000PF/50V
C221		AECUU06F103Z	CHIP CAPACITOR	1	0.01µF/50V (H624 APH, H614 APH, H604 APH, H504 APH, S624 APH/CPH, S614 APH, S604 APH, S504 APH/CPH)
C484		AECUU06F103Z	CHIP CAPACITOR	1	0.01µF/50V (H624 APH, H614 APH, H604 APH, H504 APH)
C12, C350, C440		AECUT06F104Z	CHIP CAPACITOR	3	0.1µF/25V
C224		AECUT06F104Z	CHIP CAPACITOR	1	0.1µF/25V (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
C481		AECUU06F473Z	CHIP CAPACITOR	1	0.047µF/50V (H**4 APH/CPH)
C222, C223		AECUN06F105Z	CHIP CAPACITOR	2	1µF/50V (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
C10		AECETK1V471B	AL CHEM CAPACITOR	1	470µF/35V
C482		AECETS1H010B	AL CHEM CAPACITOR	1	1µF/50V (H**4 APH/CPH)
C483		AECETS1HR47B	AL CHEM CAPACITOR	1	0.47µF/50V (H**4 APH/CPH)
C485		AECETS1H2R2B	AL CHEM CAPACITOR	1	2.2µF/50V (H**4 APH/CPH)
C13		AECETS1C220B	AL CHEM CAPACITOR	1	22µF/16V (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
CN1		AEEMXH01505W	CONNECTOR	1	5 Pin
CN2		AEEMMF00703W	CONNECTOR	1	3 Pin (H**4 APH/CPH)
CN3		F03524U00AP	CONNECTOR	1	3 Pin
CN4		AEEMXH00F04W	CONNECTOR	1	4 Pin
CX320		AEFOS800MG06	CERAMIC RESONATOR	1	8.0MHz
D10-D13		AESSRCT1A6-E	DIODE	4	
D40, D220, D221		AESS133T-77	DIODE	3	
D223		AESS133T-77	DIODE	1	CPH
D225, D226		AESS133T-77	DIODE	2	(H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
D25		AERZ271KD10A	VARSITOR	1	
D26, D27		AERZ102KD10A	VARISTOR	2	CPH
D180-D183		AESQPY1112CK	CHIP-LED	4	(H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
D180-D183		AESQPY1112H	CHIP-LED	4	(H624 APH, H614 APH, H604 APH, H504 APH, S624 APH/CPH, S614 APH, S604 APH, S504 APH/CPH)
IC1		MN101C589EN	L.S.I.	1	APH
IC1		MN101C589EP	L.S.I.	1	CPH
IC480		AEICUPC358G2	IC	1	(H**4 APH/CPH)
Q226		AESA14EKE	CHIP DIGI-TRANSISTOR	1	
Q182, Q210		AESC23JKE	CHIP DIGI-TRANSISTOR	2	
Q223		AESC23JKE	CHIP DIGI-TRANSISTOR	1	CPH
Q221		2SA1037AK	CHIP DIGI-TRANSISTOR	1	(H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
Q11, Q180		2SD1859TV2Q	TRANSISTOR	2	
Q40, Q181, Q220, Q225		2SC2412KT146	CHIP TRANSISTOR	4	
R320		AERJ06J0R00R	CHIP RESISTOR	1	0Ω, 1/10W, 5%
R211		AERJ06J102R	CHIP RESISTOR	1	1K, 1/10W, 5%
R12, R225		AERJ06J103R	CHIP RESISTOR	2	10K, 1/10W, 5% (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
R226		AERJ06J103R	CHIP RESISTOR	1	10K, 1/10W, 5%
R490, R492		AERJ06J103R	CHIP RESISTOR	2	10K, 1/10W, 5% (H**4 APH/CPH)
R221, R228, R229, R350, R351		AERJ06J104R	CHIP RESISTOR	5	100K, 1/10W, 5%
R483, R484, R489		AERJ06J105R	CHIP RESISTOR	3	1M, 1/10W, 5% (H**4 APH/CPH)
R40-R47		AERJ06J154R	CHIP RESISTOR	8	150K, 1/10W, 5%
R485		AERJ06J154R	CHIP RESISTOR	1	150K, 1/10W, 5% (H**4 APH/CPH)
R488, R491		AERJ06J202R	CHIP RESISTOR	2	2K, 1/10W, 5% (H**4 APH/CPH)
R220		AERJ06J222R	CHIP RESISTOR	1	2.2K, 1/10W, 5%
R224		AERJ06J222R	CHIP RESISTOR	1	2.2K, 1/10W, 5% (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
R222, R223		AERJ06J222R	CHIP RESISTOR	2	2.2K, 1/10W, 5% (H624 APH, H614 APH, H604 APH, H504 APH, S624 APH/CPH, S614 APH, S604 APH, S504 APH/CPH)
R210		AERJ06J332R	CHIP RESISTOR	1	3.3K, 1/10W, 5%
R223, R352		AERJ06J332R	CHIP RESISTOR	2	3.3K, 1/10W, 5% (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
R180		AERJ06J333R	CHIP RESISTOR	1	33K, 1/10W, 5% (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
R330		AERJ06J333R	CHIP RESISTOR	1	33K, 1/10W, 5%
R182		AERJ06J360R	CHIP RESISTOR	1	36Ω, 1/10W, 5%
R227		AERJ06J363R	CHIP RESISTOR	1	36K, 1/10W, 5% (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
R487		AERJ06J433R	CHIP RESISTOR	1	43K, 1/10W, 5% (H**4 APH/CPH)
R230		AERJ06J471R	CHIP RESISTOR	1	470Ω, 1/10W, 5% (H664 APH/CPH, H644 APH, H634 APH, H674 CPH, S654 APH, S644 APH, S634 APH, S634 CPH, S614 CPH, S604 CPH)
R331, R441, R554		AERJ06J471R	CHIP RESISTOR	3	470Ω, 1/10W, 5%
R14, R15, R180, R181, R352		AERJ06J472R	CHIP RESISTOR	5	4.7K, 1/10W, 5% (H624 APH, H614 APH, H604 APH, H504 APH, S624 APH/CPH, S614 APH, S604 APH, S504 APH/CPH)
R480, R481		AERJ06J472R	CHIP RESISTOR	2	4.7K, 1/10W, 5% (H**4 APH/CPH)
R553		AERJ06J473R	CHIP RESISTOR	1	47K, 1/10W, 5%
R440		AERJ06J512R	CHIP RESISTOR	1	5.1K, 1/10W, 5%
R486		AERJ06J684R	CHIP RESISTOR	1	680K, 1/10W, 5% (H**4 APH/CPH)
R10, R11		AERDY2TJ102T	CARBON RESISTOR	2	1K, 1/4W, 5%
R290		AERDY2TJ104T	CARBON RESISTOR	1	100K, 1/4W, 5%
VZ1		AEVNNV6TL103	VARISTOR	1	10KΩVR
RY1		AEGG5G1A18	POWER RELAY	1	
RY2		AEBLD118	POWER RELAY	1	CPH
T10		AETP284U0AP	LOW VOLTAGE TRANSFORMER	1	
ZD11		AESZMTZJ5R6B	ZENER DIODE	1	

5.5.2. NN-T694SF/T664SF/T654SF/T644SF

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
BZ310		AEFBAT2001	BUZZER	1	2.0KHz
C221		AECUU06F103Z	CHIP CAPACITOR	1	0.01µF/50V
C222, C486		AECUU06F103Z	CHIP CAPACITOR	2	0.01µF/50V (T694SF)
C484		AECUU06F103Z	CHIP CAPACITOR	1	0.01µF/50V (T664SF, T654SF, T644SF)
C343		AECUU06C101J	CHIP CAPACITOR	1	100PF/50V
C12, C340, C440		AECUT06F104Z	CHIP CAPACITOR	3	0.1µF/25V
C223, C224		AECUN06F105Z	CHIP CAPACITOR	2	1µF/50V (T694SF)
C330		AECUU06R102K	CHIP CAPACITOR	1	1000PF/50V
C331		AECUU06R102K	CHIP CAPACITOR	1	1000PF/50V (T694SF)
C481		AECUU06F473Z	CHIP CAPACITOR	1	0.047µF/50V
C10		AECETK1V471B	AL CHEM CAPACITOR	1	470µF/35V
C482		AECETS1H010B	AL CHEM CAPACITOR	1	1µF/50V
C483		AECETS1HR47B	AL CHEM CAPACITOR	1	0.47µF/50V
C485		AECETS1H2R2B	AL CHEM CAPACITOR	1	2.2µF/50V
C13		AECETS1C220B	AL CHEM CAPACITOR	1	22µF/16V (T694SF)
PIN1, PIN2		AEPINIPS-1E7	PIN	2	(T694SF)
CN1		AEEMXH01505W	CONNECTOR	1	5 Pin
CN2		AEEMMF00703W	CONNECTOR	1	3 Pin
CN3		F03524U50AP	CONNECTOR	1	3 Pin
CN4		AEEMXH00F04W	CONNECTOR	1	4 Pin
CN5		AEEM9604S15F	CONNECTOR	1	15 Pin (T694SF)
CN6		AEEM9604S15C	CONNECTOR	1	(T694SF)
CN6		AEEM09FDZBTM	CONNECTOR	1	9 Pin (T664SF, T654SF, T644SF)
CX320		AEFOS800MG06	CERAMIC RESONATOR	1	8.0MHz
DISP110		AEDDHJ5W00AP	LCD	1	(T694SF)
DISP1		AEDDHJ5U20XN	LCD	1	(T664SF, T654SF, T644SF)
DISP110 HOLDER		F66175W00AP	LCD HOLDER	1	(T694SF)
DISP110 HOLDER		F66174U20AP	LCD HOLDER	1	(T664SF, T654SF, T644SF)
		F67525E40XN	DIFFUSION SHEET	1	(T694SF)
D10-D13		AESSRCT1A6-E	DIODE	4	
D40, D220, D221		AESS133T-77	DIODE	3	
D225, D226, D227		AESS133T-77	DIODE	3	(T694SF)
D223		AESS133T-77	DIODE	1	CPH
D25		AERZ271KD10A	VARSITOR	1	
D26, D27		AERZ102KD10A	VARSITOR	2	CPH
D180-D183		AESQPY1112H	CHIP-LED	4	
D184-D189		AESQPY1112H	CHIP-LED	6	(T694SF)
IC1		MN101C54CFS	L.S.I.	1	(T694SF)

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
IC1		MN101C589EN	L.S.I.	1	(T664SF, T654SF, T644SF)
IC480		AEICUPC358G2	IC	1	
Q226		AESA14EKE	CHIP DIGI-TRANSISTOR	1	
Q182, Q224		AESC23JKE	CHIP DIGI-TRANSISTOR	2	
Q223		AESC23JKE	CHIP DIGI-TRANSISTOR	1	CPH
Q221, Q227		2SA1037AK	CHIP DIGI-TRANSISTOR	2	(T694SF)
Q10, Q180		2SD1859TV2Q	TRANSISTOR	2	
Q181, Q220, Q225		2SC2412KT146	CHIP TRANSISTOR	3	
R182, R183		AERJ06J101R	CHIP RESISTOR	2	100Ω, 1/10W, 5% (T694SF)
R490, R492		AERJ06J103R	CHIP RESISTOR	2	10K, 1/10W, 5%
R224, R225		AERJ06J103R	CHIP RESISTOR	2	10K, 1/10W, 5% (T694SF)
R226		AERJ06J103R	CHIP RESISTOR	1	10K, 1/10W, 5% (T664SF, T654SF, T644SF)
R221, R228, R342, R343		AERJ06J104R	CHIP RESISTOR	4	100K, 1/10W, 5%
R230		AERJ06J104R	CHIP RESISTOR	1	100K, 1/10W, 5% (T694SF)
R483, R484, R489		AERJ06J105R	CHIP RESISTOR	3	1M, 1/10W, 5%
R485		AERJ06J154R	CHIP RESISTOR	1	150K, 1/10W, 5%
R13		AERJ06J154R	CHIP RESISTOR	1	150K, 1/10W, 5% (T694SF)
R488, R491		AERJ06J202R	CHIP RESISTOR	2	2K, 1/10W, 5%
R181, R320		AERJ06J220R	CHIP RESISTOR	2	22Ω, 1/10W, 5%
R220, R222, R223		AERJ06J222R	CHIP RESISTOR	3	2.2K, 1/10W, 5%
R226, R360		AERJ06J222R	CHIP RESISTOR	2	2.2K, 1/10W, 5% (T694SF)
R310		AERJ06J332R	CHIP RESISTOR	1	3.3K, 1/10W, 5%
R330		AERJ06J333R	CHIP RESISTOR	1	33K, 1/10W, 5%
R181		AERJ06J360R	CHIP RESISTOR	1	36Ω, 1/10W, 5% (T664SF, T654SF, T644SF)
R229		AERJ06J363R	CHIP RESISTOR	1	36K, 1/10W, 5% (T694SF)
R487		AERJ06J433R	CHIP RESISTOR	1	43K, 1/10W, 5%
R331, R341, R441		AERJ06J471R	CHIP RESISTOR	3	470Ω, 1/10W, 5%
R227, R496		AERJ06J471R	CHIP RESISTOR	2	470Ω, 1/10W, 5% (T694SF)
R480, R481		AERJ06J472R	CHIP RESISTOR	2	4.7K, 1/10W, 5%
R360		AERJ06J472R	CHIP RESISTOR	1	4.7K, 1/10W, 5% (T664SF, T654SF, T644SF)
R340		AERJ06J473R	CHIP RESISTOR	1	47K, 1/10W, 5%
R440		AERJ06J512R	CHIP RESISTOR	1	5.1K, 1/10W, 5%
R486		AERJ06J684R	CHIP RESISTOR	1	680K, 1/10W, 5%
R10, R11, R311		AERDS2TJ102T	CARBON RESISTOR	3	1K, 1/4W, 5%
R12, R180		AERDS2TJ103T	CARBON RESISTOR	2	10K, 1/4W, 5%
R290		AERDS2TJ104T	CARBON RESISTOR	1	100K, 1/4W, 6%
VZ340		AEVNNV6TL103	VARISTOR	1	10KΩVR
RY1		AEGG5G1A18	POWER RELAY	1	
RY2		AEBLD118	POWER RELAY	1	(T694SF)
T10		AETP284U0AP	LOW VOLTAGE TRANSFORMER	1	
ZD10		AESZMTZJ5R6B	ZENER DIODE	1	
SW1-SW4, SW6-SW9, SW11, SW16, SW17, SW19-SW30		EVQ11L05R	SWITCH	23	(T694SF)

01/04
S-6K1, S-6K3
S-6K4, S-6K5
S-6K8, S-6K9
S-6L0, S-6L1
S-6L2, S-6L3
S-6L4, S-6L5
S-6L6, S-6L7
S-6L8, S-6M0
S-6M1, S-6Q5
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